MarÃ-a Cruz MinguillÃ³n

List of Publications by Year
in descending order

89 papers	6,410 citations	66234 42 h-index	69108 77 g-index
127 all docs	127 docs citations	127 times ranked	6532 citing authors

#	Article	IF	Citations
1	How can ventilation be improved on public transportation buses? Insights from CO2 measurements. Environmental Research, 2022, 205, 112451.	3.7	17
2	European aerosol phenomenology â˜’ 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. Environment International, 2022, 166, 107325.	4.8	41
3	Absorption enhancement of black carbon particles in a Mediterranean city and countryside: effect of particulate matter chemistry, ageing and trend analysis. Atmospheric Chemistry and Physics, 2022, 22, 8439-8456.	1.9	10
4	A European aerosol phenomenology - 7: High-time resolution chemical characteristics of submicron particulate matter across Europe. Atmospheric Environment: X, 2021, 10, 100108.	0.8	23
5	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.	1.2	22
6	Organophosphate esters in airborne particles from subway stations. Science of the Total Environment, 2021, 769, 145105.	3.9	19
7	Increase in secondary organic aerosol in an urban environment. Atmospheric Chemistry and Physics, 2021, 21, 8323-8339.	1.9	25
8	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.	3.9	26
9	Compositional changes of PM2.5 in NE Spain during 2009â€“2018: A trend analysis of the chemical composition and source apportionment. Science of the Total Environment, 2021, 795, 148728.	3.9	18
10	Evaluation of the Semi-Continuous OCEC analyzer performance with the EUSAAR2 protocol. Science of the Total Environment, 2020, 747, 141266.	3.9	22
11	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.	1.9	37
12	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.	3.9	610
13	Molecular insights into new particle formation in Barcelona, Spain. Atmospheric Chemistry and Physics, 2020, 20, 10029-10045.	1.9	27
14	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.	1.9	19
15	Source apportionment of urban PM1 in Barcelona during SAPUSS using organic and inorganic components. Environmental Science and Pollution Research, 2019, 26, 32114-32127.	2.7	15
16	Vertical and horizontal fall-off of black carbon and NO2 within urban blocks. Science of the Total Environment, 2019, 686, 236-245.	3.9	18
17	Effects of two different biogenic emission models on modelled ozone and aerosol concentrations in Europe. Atmospheric Chemistry and Physics, 2019, 19, 3747-3768.	1.9	36
18	Health risk assessment from exposure to particles during packing in working environments. Science of the Total Environment, 2019, 671, 474-487.	3.9	22

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19	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.	1.9	35
20	Aerosol sources in subway environments. Environmental Research, 2018, 167, 314-328.	3.7	45
21	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise â€“ Part II. Atmospheric Environment, 2018, 193, 127-142.	1.9	72
22	Air Quality in Subway Systems. , 2018, , 289-321.		7
23	The effect of ventilation protocols on airborne particulate matter in subway systems. Science of the Total Environment, 2017, 584-585, 1317-1323.	3.9	49
24	Factors controlling particle number concentration and size at metro stations. Atmospheric Environment, 2017, 156, 169-181.	1.9	29
25	Formation and alteration of airborne particles in the subway environment. Environmental Sciences: Processes and Impacts, 2017, 19, 59-64.	1.7	14
26	Oxidative potential of subway PM 2.5. Atmospheric Environment, 2017, 148, 230-238.	1.9	63
27	Bioaerosols in the Barcelona subway system. Indoor Air, 2017, 27, 564-575.	2.0	45
28	Phenomenology of high-ozone episodes in NE Spain. Atmospheric Chemistry and Physics, 2017, 17, 2817-2838.	1.9	45
29	Organic aerosol source apportionment by offline-AMS over a full year in Marseille. Atmospheric Chemistry and Physics, 2017, 17, 8247-8268.	1.9	75
30	Characterisation of Airborne Particulate Matter in Different European Subway Systems. , 2017, , .		1
31	Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer. Atmospheric Measurement Techniques, 2017, 10, 2061-2076.	1.2	79
32	Secondary organic aerosol origin in an urban environment: influence of biogenic and fuel combustion precursors. Faraday Discussions, 2016, 189, 337-359.	1.6	40
33	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. Atmospheric Environment, 2016, 147, 246-263.	1.9	182
34	Urban case studies: general discussion. Faraday Discussions, 2016, 189, 473-514.	1.6	1
35	Vertical and horizontal variability of PM₁₀ source contributions in Barcelona during SAPUSS. Atmospheric Chemistry and Physics, 2016, 16, 6785-6804.	1.9	10
36	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.	1.9	54

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37	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in fiveÂsouthern European cities. Atmospheric Chemistry and Physics, 2016, 16, 3289-3309.	1.9	267
38	Factors controlling air quality in different European subway systems. Environmental Research, 2016, 146, 35-46.	3.7	138
39	Origin of inorganic and organic components of PM 2.5 in subway stations of Barcelona, Spain. Environmental Pollution, 2016, 208, 125-136.	3.7	95
40	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.	1.9	36
41	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.	1.9	69
42	ACTRIS ACSM intercomparison â€“ 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.	1.2	104
43	ACTRIS ACSM intercomparison â€“ 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.	1.2	118
44	Road traffic and sandy playground influence on ambient pollutants in schools. Atmospheric Environment, 2015, 111, 94-102.	1.9	9
45	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees,) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	80
46	A new look at inhalable metalliferous airborne particles on rail subway platforms. Science of the Total Environment, 2015, 505, 367-375.	3.9	116
47	New particle formation at ground level and in the vertical column over the Barcelona area. Atmospheric Research, 2015, 164-165, 118-130.	1.8	37
48	Exposure to airborne particulate matter in the subway system. Science of the Total Environment, 2015, 511, 711-722.	3.9	140
49	PM10 concentration in urban atmosphere around the eastern Tien Shan, Central Asia during 2007â€“2013. Environmental Science and Pollution Research, 2015, 22, 6864-6876.	2.7	7
50	Deposition of aerosol particles from a subway microenvironment in the human respiratory tract. Journal of Aerosol Science, 2015, 90, 103-113.	1.8	62
51	Variability of aerosols and chemical composition of PM 10 , PM 2.5 and PM 1 on a platform of the Prague underground metro. Atmospheric Environment, 2015, 118, 176-183.	1.9	46
52	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. Environmental Research, 2015, 142, 495-510.	3.7	136
53	Particulate air pollution and preeclampsia: a source-based analysis. Occupational and Environmental Medicine, 2014, 71, 570-577.	1.3	46
54	Spatial variability of trace elements and sources for improved exposure assessment in Barcelona. Atmospheric Environment, 2014, 89, 268-281.	1.9	61

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55	Mass concentration, composition and sources of fine and coarse particulate matter in Tijuana, Mexico, during Cal-Mex campaign. Atmospheric Environment, 2014, 88, 320-329.	1.9	32
56	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. Atmospheric Environment, 2014, 92, 461-468.	1.9	141
57	2001â€“2012 trends on air quality in Spain. Science of the Total Environment, 2014, 490, 957-969.	3.9	123
58	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.	1.2	49
59	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	40
60	Origin of PM10 Pollution Episodes in an Industrialized Mega-City in Central China. Aerosol and Air Quality Research, 2014, 14, 338-346.	0.9	7
61	Air quality comparison between two European ceramic tile clusters. Atmospheric Environment, 2013, 74, 311-319.	1.9	21
62	Particulate Matter: Environmental Monitoring and Mitigation. , 2013, , .		1
63	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.	1.9	104
64	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. Atmospheric Chemistry and Physics, 2013, 13, 8991-9019.	1.9	27
65	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.	1.9	122
66	Within-city contrasts in PM composition and sources and their relationship with nitrogen oxides. Journal of Environmental Monitoring, 2012, 14, 2718.	2.1	15
67	Source apportionment of indoor, outdoor and personal PM2.5 exposure of pregnant women in Barcelona, Spain. Atmospheric Environment, 2012, 59, 426-436.	1.9	68
68	Organic compounds in aerosols from selected European sites â€“ Biogenic versus anthropogenic sources. Atmospheric Environment, 2012, 59, 243-255.	1.9	57
69	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.	3.9	103
70	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.	1.9	157
71	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.	1.9	90
72	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. Science of the Total Environment, 2010, 408, 4569-4579.	3.9	163

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73	Impact of fugitive emissions in ambient PM levels and compositionA case study in Southeast Spain. Science of the Total Environment, 2010, 408, 4999-5009.	3.9	44
74	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.	2.0	73
75	Quantitative sampling and analysis of trace elements in atmospheric aerosols: impactor characterization and Synchrotron-XRF mass calibration. Atmospheric Measurement Techniques, 2010, 3, 1473-1485.	1.2	36
76	Inter- and Intra-Community Variability in Continuous Coarse Particulate Matter (PM_{10-2.5}) Concentrations in the Los Angeles Area. Aerosol Science and Technology, 2010, 44, 526-540.	1.5	16
77	Effect of ceramic industrial particulate emission control on key components of ambient PM10. Journal of Environmental Management, 2009, 90, 2558-2567.	3.8	44
78	Application of Optimally Scaled Target Factor Analysis for Assessing Source Contribution of Ambient PM₁₀. Journal of the Air and Waste Management Association, 2009, 59, 1296-1307.	0.9	72
79	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999â€“2005. Atmospheric Environment, 2008, 42, 3964-3979.	1.9	287
80	Inter-comparison of receptor models for PM source apportionment: Case study in an industrial area. Atmospheric Environment, 2008, 42, 3820-3832.	1.9	134
81	Seasonal and spatial variations of sources of fine and quasi-ultrafine particulate matter in neighborhoods near the Los Angelesâ€“Long Beach harbor. Atmospheric Environment, 2008, 42, 7317-7328.	1.9	82
82	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.	1.9	34
83	Lanthanoid Geochemistry of Urban Atmospheric Particulate Matter. Environmental Science & Technology, 2008, 42, 6502-6507.	4.6	84
84	Spatial and temporal variations in inhalable CuZnPb aerosols within the Mexico City pollution plume. Journal of Environmental Monitoring, 2008, 10, 370.	2.1	22
85	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. Atmospheric Environment, 2007, 41, 7219-7231.	1.9	396
86	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.	2.1	28
87	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.	1.9	38
88	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. Atmospheric Environment, 2007, 41, 913-922.	1.9	158
89	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, 382-396.	3.9	43