Xavier Querol

List of Publications by Year
in descending order

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710 papers	52,790 citations	1046 113 h-index	3487 182 g-index
784 all docs	784 docs citations	784 times ranked	30313 citing authors

#	Article	IF	Citations
1	How can airborne transmission of COVID-19 indoors be minimised?. Environment International, 2020, 142, 105832.	10.0	933
2	Source apportionment of particulate matter in Europe: A review of methods and results. Journal of Aerosol Science, 2008, 39, 827-849.	3.8	812
3	A European aerosol phenomenologyâ€"2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. Atmospheric Environment, 2004, 38, 2579-2595.	4.1	801
4	Synthesis of zeolites from coal fly ash: an overview. International Journal of Coal Geology, 2002, 50, 413-423.	5.0	707
5	A European aerosol phenomenology â€“ 3: Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. Atmospheric Environment, 2010, 44, 1308-1320.	4.1	654
6	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.	8.0	610
7	Green spaces and cognitive development in primary schoolchildren. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7937-7942.	7.1	577
8	Leaching behaviour of elements from coal combustion fly ash: An overview. International Journal of Coal Geology, 2012, 94, 54-66.	5.0	570
9	PM10 and PM2.5 source apportionment in the Barcelona Metropolitan area, Catalonia, Spain. Atmospheric Environment, 2001, 35, 6407-6419.	4.1	563
10	Speciation and origin of PM10 and PM2.5 in selected European cities. Atmospheric Environment, 2004, 38, 6547-6555.	4.1	531
11	Trace elements in coal and their behaviour during combustion in a large power station. Fuel, 1995, 74, 331-343.	6.4	520
12	A European aerosol phenomenologyâ€"1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. Atmospheric Environment, 2004, 38, 2561-2577.	4.1	494
13	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. Atmospheric Environment, 2009, 43, 2770-2780.	4.1	492
14	Saharan dust contributions to PM10 and TSP levels in Southern and Eastern Spain. Atmospheric Environment, 2001, 35, 2433-2447.	4.1	482
15	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. Atmospheric Chemistry and Physics, 2012, 12, 1649-1665.	4.9	449
16	Impact of maritime transport emissions on coastal air quality in Europe. Atmospheric Environment, 2014, 90, 96-105.	4.1	435
17	Purification of metal electroplating waste waters using zeolites. Water Research, 2003, 37, 4855-4862.	11.3	429
18	Association between Traffic-Related Air Pollution in Schools and Cognitive Development in Primary School Children: A Prospective Cohort Study. PLoS Medicine, 2015, 12, e1001792.	8.4	399

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19	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. Atmospheric Environment, 2007, 41, 7219-7231.	4.1	396
20	Spatial and chemical patterns of PM10 in road dust deposited in urban environment. Atmospheric Environment, 2009, 43, 1650-1659.	4.1	387
21	Environmental, physical and structural characterisation of geopolymer matrixes synthesised from coal (co-)combustion fly ashes. Journal of Hazardous Materials, 2008, 154, 175-183.	12.4	375
22	African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. Atmospheric Environment, 2009, 43, 4266-4277.	4.1	375
23	African dust outbreaks over the Mediterranean Basin during 2001â€“2011: PM₁₀ concentrations, phenomenology and trends, and its relation with synoptic and mesoscale meteorology. Atmospheric Chemistry and Physics, 2013, 13, 1395-1410.	4.9	343
24	Geochemical variations in aeolian mineral particles from the Saharaâ€“Sahel Dust Corridor. Chemosphere, 2006, 65, 261-270.	8.2	330
25	New considerations for PM, Black Carbon and particle number concentration for air quality monitoring across different European cities. Atmospheric Chemistry and Physics, 2011, 11, 6207-6227.	4.9	317
26	Urban air quality: The challenge of traffic non-exhaust emissions. Journal of Hazardous Materials, 2014, 275, 31-36.	12.4	314
27	Coarse Particles From Saharan Dust and Daily Mortality. Epidemiology, 2008, 19, 800-807.	2.7	301
28	Sources and variability of inhalable road dust particles in three European cities. Atmospheric Environment, 2011, 45, 6777-6787.	4.1	294
29	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999â€“2005. Atmospheric Environment, 2008, 42, 3964-3979.	4.1	287
30	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in fiveÂsouthern European cities. Atmospheric Chemistry and Physics, 2016, 16, 3289-3309.	4.9	267
31	Environmental characterization of burnt coal gangue banks at Yangquan, Shanxi Province, China. International Journal of Coal Geology, 2008, 75, 93-104.	5.0	266
32	Physico-chemical characteristics of European pulverized coal combustion fly ashes. Fuel, 2005, 84, 1351-1363.	6.4	247
33	Speciation and origin of PM10 and PM2.5 in Spain. Journal of Aerosol Science, 2004, 35, 1151-1172.	3.8	246
34	Partitioning of major and trace components in PM10â€“PM2.5â€“PM1 at an urban site in Southern Europe. Atmospheric Environment, 2008, 42, 1677-1691.	4.1	243
35	Child exposure to indoor and outdoor air pollutants in schools in Barcelona, Spain. Environment International, 2014, 69, 200-212.	10.0	243
36	Source apportionment of PM10 and PM2.5 at multiple sites in the strait of Gibraltar by PMF: impact of shipping emissions. Environmental Science and Pollution Research, 2011, 18, 260-269.	5.3	238

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37	Geochemistry and mineralogy of coal in the recently explored Zhundong large coal field in the Junggar basin, Xinjiang province, China. International Journal of Coal Geology, 2010, 82, 51-67.	5.0	234
38	Chemical Tracers of Particulate Emissions from Commercial Shipping. Environmental Science & Technology, 2009, 43, 7472-7477.	10.0	227
39	A Fast Method for Recycling Fly Ash:Â Microwave-Assisted Zeolite Synthesis. Environmental Science & Technology, 1997, 31, 2527-2533.	10.0	225
40	Monitoring of PM10 and PM2.5 around primary particulate anthropogenic emission sources. Atmospheric Environment, 2001, 35, 845-858.	4.1	220
41	Transport of desert dust mixed with North African industrial pollutants in the subtropical Saharan Air Layer. Atmospheric Chemistry and Physics, 2011, 11, 6663-6685.	4.9	218
42	Quantifying the health impacts of ambient air pollutants: recommendations of a WHO/Europe project. International Journal of Public Health, 2015, 60, 619-627.	2.3	217
43	Comparative PM10â€“PM2.5 source contribution study at rural, urban and industrial sites during PM episodes in Eastern Spain. Science of the Total Environment, 2004, 328, 95-113.	8.0	216
44	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign. Atmospheric Chemistry and Physics, 2008, 8, 111-128.	4.9	215
45	Wet and dry African dust episodes over eastern Spain. Journal of Geophysical Research, 2005, 110, .	3.3	210
46	Variability in regional background aerosols within the Mediterranean. Atmospheric Chemistry and Physics, 2009, 9, 4575-4591.	4.9	210
47	Review of the efficacy of low emission zones to improve urban air quality in European cities. Atmospheric Environment, 2015, 111, 161-169.	4.1	210
48	A review on the effectiveness of street sweeping, washing and dust suppressants as urban PM control methods. Science of the Total Environment, 2010, 408, 3070-3084.	8.0	208
49	Variability of Particle Number, Black Carbon, and PM₁₀, PM_{2.5}, and PM₁Levels and Speciation: Influence of Road Traffic Emissions on Urban Air Quality. Aerosol Science and Technology, 2010, 44, 487-499.	3.1	207
50	Geological controls on the mineralogy and geochemistry of the Beypazari lignite, central Anatolia, Turkey. International Journal of Coal Geology, 1997, 33, 255-271.	5.0	203
51	Synthesis of zeolites from fly ash at pilot plant scale. Examples of potential applications. Fuel, 2001, 80, 857-865.	6.4	201
52	Coal fly ash-slag-based geopolymers: Microstructure and metal leaching. Journal of Hazardous Materials, 2009, 166, 561-566.	12.4	200
53	Synthesis of Na-zeolites from fly ash. Fuel, 1997, 76, 793-799.	6.4	197
54	Health effects from Sahara dust episodes in Europe: Literature review and research gaps. Environment International, 2012, 47, 107-114.	10.0	194

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55	Associations between Fine and Coarse Particles and Mortality in Mediterranean Cities: Results from the MED-PARTICLES Project. Environmental Health Perspectives, 2013, 121, 932-938.	6.0	193
56	A paradigm shift to combat indoor respiratory infection. Science, 2021, 372, 689-691.	12.6	192
57	Source apportionment of urban fine and ultra-fine particle number concentration in a Western Mediterranean city. Atmospheric Environment, 2009, 43, 4407-4415.	4.1	189
58	Characterisation of TSP and PM2.5 at IzaÃ±a and Sta. Cruz de Tenerife (Canary Islands, Spain) during a Saharan Dust Episode (July 2002). Atmospheric Environment, 2005, 39, 4715-4728.	4.1	187
59	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) â€“ Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. Atmospheric Chemistry and Physics, 2010, 10, 5315-5341.	4.9	182
60	Influence of African dust on the levels of atmospheric particulates in the Canary Islands air quality network. Atmospheric Environment, 2002, 36, 5861-5875.	4.1	180
61	Short-term Associations between Fine and Coarse Particulate Matter and Hospitalizations in Southern Europe: Results from the MED-PARTICLES Project. Environmental Health Perspectives, 2013, 121, 1026-1033.	6.0	180
62	Utilization of Zeolites Synthesized from Coal Fly Ash for the Purification of Acid Mine Waters. Environmental Science & Technology, 2001, 35, 3526-3534.	10.0	179
63	Chemical characterisation and source apportionment of PM2.5 and PM10 at rural, urban and traffic sites in Navarra (North of Spain). Atmospheric Research, 2011, 102, 191-205.	4.1	176
64	Polycyclic aromatic hydrocarbons and their derivatives (nitro-PAHs, oxygenated PAHs, and azaarenes) in PM 2.5 from Southern European cities. Science of the Total Environment, 2017, 595, 494-504.	8.0	175
65	A methodology for the quantification of the net African dust load in air quality monitoring networks. Atmospheric Environment, 2007, 41, 5516-5524.	4.1	174
66	Identification and characterisation of sources of PM10 in Madrid (Spain) by statistical methods. Atmospheric Environment, 2004, 38, 435-447.	4.1	173
67	Variability of levels and composition of PM₁₀ and PM_{2.5} in the Barcelona metro system. Atmospheric Chemistry and Physics, 2012, 12, 5055-5076.	4.9	173
68	Heavy metal adsorption by different minerals: application to the remediation of polluted soils. Science of the Total Environment, 1999, 242, 179-188.	8.0	171
69	Immobilization of heavy metals in polluted soils by the addition of zeolitic material synthesized from coal fly ash. Chemosphere, 2006, 62, 171-180.	8.2	170
70	Mobility of trace elements from coal and combustion wastes. Fuel, 1996, 75, 821-838.	6.4	169
71	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. Science of the Total Environment, 2010, 408, 4569-4579.	8.0	163
72	The Effects of Particulate Matter Sources on Daily Mortality: A Case-Crossover Study of Barcelona, Spain. Environmental Health Perspectives, 2011, 119, 1781-1787.	6.0	161

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73	Traffic and nucleation events as main sources of ultrafine particles in high-insolation developed world cities. Atmospheric Chemistry and Physics, 2015, 15, 5929-5945.	4.9	161
74	Levels of particulate matter in rural, urban and industrial sites in Spain. Science of the Total Environment, 2004, 334-335, 359-376.	8.0	159
75	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. Atmospheric Environment, 2007, 41, 913-922.	4.1	158
76	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.	4.9	157
77	Hourly elemental concentrations in PM_{2.5} aerosols sampled simultaneously at urban background and road site during SAPUSS â€“ diurnal variations and PMF receptor modelling. Atmospheric Chemistry and Physics, 2013, 13, 4375-4392.	4.9	155
78	Sources of indoor and outdoor PM2.5 concentrations in primary schools. Science of the Total Environment, 2014, 490, 757-765.	8.0	153
79	Chemical composition and minerals in pyrite ash of an abandoned sulphuric acid production plant. Science of the Total Environment, 2012, 430, 34-47.	8.0	151
80	Desert Dust Outbreaks in Southern Europe: Contribution to Daily PM ₁₀ Concentrations and Short-Term Associations with Mortality and Hospital Admissions. Environmental Health Perspectives, 2016, 124, 413-419.	6.0	148
81	Source apportionment analysis of atmospheric particulates in an industrialised urban site in southwestern Spain. Atmospheric Environment, 2002, 36, 3113-3125.	4.1	147
82	The association between greenness and traffic-related air pollution at schools. Science of the Total Environment, 2015, 523, 59-63.	8.0	146
83	Assessment of personal exposure to particulate air pollution during commuting in European citiesâ€”Recommendations and policy implications. Science of the Total Environment, 2014, 490, 785-797.	8.0	145
84	Environmental impact of a coal combustion-desulphurisation plant: Abatement capacity of desulphurisation process and environmental characterisation of combustion by-products. Chemosphere, 2006, 65, 2009-2017.	8.2	142
85	Influence of soil cover on reducing the environmental impact of spontaneous coal combustion in coal waste gobs: A review and new experimental data. International Journal of Coal Geology, 2011, 85, 2-22.	5.0	142
86	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. Atmospheric Environment, 2014, 92, 461-468.	4.1	141
87	Exposure to airborne particulate matter in the subway system. Science of the Total Environment, 2015, 511, 711-722.	8.0	140
88	Adsorption of Cr(VI) from synthetic solutions and electroplating wastewaters on amorphous aluminium oxide. Journal of Hazardous Materials, 2007, 142, 191-198.	12.4	139
89	Spatial and temporal variability in aerosol properties over the Mediterranean basin based on 6â€year (2000â€“2006) MODIS data. Journal of Geophysical Research, 2008, 113, .	3.3	139
90	A study on the relationship between mass concentrations, chemistry and number size distribution of urban fine aerosols in Milan, Barcelona and London. Atmospheric Chemistry and Physics, 2007, 7, 2217-2232.	4.9	138

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91	Factors controlling air quality in different European subway systems. Environmental Research, 2016, 146, 35-46.	7.5	138
92	Anthropogenic and natural influence on the PM10 and PM2.5 aerosol in Madrid (Spain). Analysis of high concentration episodes. Environmental Pollution, 2003, 125, 453-465.	7.5	137
93	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. Environmental Research, 2015, 142, 495-510.	7.5	136
94	Inter-comparison of receptor models for PM source apportionment: Case study in an industrial area. Atmospheric Environment, 2008, 42, 3820-3832.	4.1	134
95	Interpretation of the variability of levels of regional background aerosols in the Western Mediterranean. Science of the Total Environment, 2008, 407, 527-540.	8.0	134
96	Monitoring the impact of desert dust outbreaks for air quality for health studies. Environment International, 2019, 130, 104867.	10.0	134
97	African dust outbreaks over the western Mediterranean Basin: 11-year characterization of atmospheric circulation patterns and dust source areas. Atmospheric Chemistry and Physics, 2014, 14, 6759-6775.	4.9	132
98	Contents of major and trace elements in feed coals from Turkish coal-fired power plants. International Journal of Coal Geology, 2000, 44, 169-184.	5.0	131
99	Size Fractionate Particulate Matter, Vehicle Traffic, and Case-Specific Daily Mortality in Barcelona, Spain. Environmental Science & Technology, 2009, 43, 4707-4714.	10.0	130
100	Biomass burning contributions to urban aerosols in a coastal Mediterranean City. Science of the Total Environment, 2012, 427-428, 175-190.	8.0	130
101	Comparative analysis of organic and elemental carbon concentrations in carbonaceous aerosols in three European cities. Atmospheric Environment, 2007, 41, 5972-5983.	4.1	128
102	PM2.5 chemical composition in five European Mediterranean cities: A 1-year study. Atmospheric Research, 2015, 155, 102-117.	4.1	128
103	Children's well-being at schools: Impact of climatic conditions and air pollution. Environment International, 2016, 94, 196-210.	10.0	128
104	Origin of high summer PM10 and TSP concentrations at rural sites in Eastern Spain. Atmospheric Environment, 2002, 36, 3101-3112.	4.1	127
105	Traffic pollution exposure is associated with altered brain connectivity in school children. NeuroImage, 2016, 129, 175-184.	4.2	127
106	Variations in atmospheric PM trace metal content in Spanish towns: Illustrating the chemical complexity of the inorganic urban aerosol cocktail. Atmospheric Environment, 2006, 40, 6791-6803.	4.1	126
107	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. Environment International, 2021, 157, 106818.	10.0	126
108	Comparison of the results obtained by four receptor modelling methods in aerosol source apportionment studies. Atmospheric Environment, 2009, 43, 3989-3997.	4.1	125

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109	Saharan dust, particulate matter and cause-specific mortality: A caseâ€“crossover study in Barcelona (Spain). Environment International, 2012, 48, 150-155.	10.0	125
110	Geochemistry and mineralogy of the Cretaceous Wulantuga high-germanium coal deposit in Shengli coal field, Inner Mongolia, Northeastern China. International Journal of Coal Geology, 2006, 66, 119-136.	5.0	124
111	Origin of the exceedances of the European daily PM limit value in regional background areas of Spain. Atmospheric Environment, 2007, 41, 730-744.	4.1	124
112	Mineralogy and leaching characteristics of beneficiated coal products from Santa Catarina, Brazil. International Journal of Coal Geology, 2012, 94, 314-325.	5.0	124
113	2001â€“2012 trends on air quality in Spain. Science of the Total Environment, 2014, 490, 957-969.	8.0	123
114	Traffic-Related Air Pollution, Noise at School, and Behavioral Problems in Barcelona Schoolchildren: A Cross-Sectional Study. Environmental Health Perspectives, 2016, 124, 529-535.	6.0	122
115	Characterization of Candiota (South Brazil) coal and combustion by-product. International Journal of Coal Geology, 2004, 60, 57-72.	5.0	120
116	Phaseâ€“mineral and chemical composition of composite samples from feed coals, bottom ashes and fly ashes at the Soma power station, Turkey. International Journal of Coal Geology, 2005, 61, 35-63.	5.0	120
117	Recovery of gallium and vanadium from gasification fly ash. Journal of Hazardous Materials, 2007, 139, 413-423.	12.4	120
118	Tracing surface and airborne SARS-CoV-2 RNA inside public buses and subway trains. Environment International, 2021, 147, 106326.	10.0	119
119	Trace element variation in size-fractionated African desert dusts. Journal of Arid Environments, 2008, 72, 1034-1045.	2.4	117
120	Mineral composition of atmospheric particulates around a large coal-fired power station. Atmospheric Environment, 1996, 30, 3557-3572.	4.1	116
121	Extraction of soluble major and trace elements from fly ash in open and closed leaching systems. Fuel, 2001, 80, 801-813.	6.4	116
122	A new look at inhalable metalliferous airborne particles on rail subway platforms. Science of the Total Environment, 2015, 505, 367-375.	8.0	116
123	Seasonal evolution of suspended particles around a large coal-fired power station. Atmospheric Environment, 1998, 32, 1963-1978.	4.1	115
124	Copper aerosols inhibit phytoplankton growth in the Mediterranean Sea. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21246-21249.	7.1	115
125	Urban NH3 levels and sources in a Mediterranean environment. Atmospheric Environment, 2012, 57, 153-164.	4.1	115
126	Trends of road dust emissions contributions on ambient air particulate levels at rural, urban and industrial sites in southern Spain. Atmospheric Chemistry and Physics, 2014, 14, 3533-3544.	4.9	115

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127	Sources and processes affecting levels and composition of atmospheric aerosol in the western Mediterranean. Journal of Geophysical Research, 2002, 107, AAC 12-1.	3.3	114
128	Trends of particulate matter (PM_{2.5}) and chemical composition at a regional background site in the Western Mediterranean over the last nine years (2002â€“2010). Atmospheric Chemistry and Physics, 2012, 12, 8341-8357.	4.9	114
129	Identification of PM sources by principal component analysis (PCA) coupled with wind direction data. Chemosphere, 2006, 65, 2411-2418.	8.2	112
130	Partitioning of trace inorganic elements in a coal-fired power plant equipped with a wet Flue Gas Desulphurisation system. Fuel, 2012, 92, 145-157.	6.4	111
131	Waste stabilization/solidification of an electric arc furnace dust using fly ash-based geopolymers. Fuel, 2009, 88, 1185-1193.	6.4	110
132	Ultrafine particles and PM2.5 in the air of cities around the world: Are they representative of each other?. Environment International, 2019, 129, 118-135.	10.0	110
133	Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and Their Application to COVID-19 Outbreaks. Environmental Science & Technology, 2022, 56, 1125-1137.	10.0	109
134	An introductory TEM study of Fe-nanominerals within coal fly ash. Science of the Total Environment, 2009, 407, 4972-4974.	8.0	108
135	Mobility of heavy metals from coal fly ash. Environmental Geology, 1994, 23, 264-270.	1.2	107
136	Determination of the contribution of northern Africa dust source areas to PM10 concentrations over the central Iberian Peninsula using the Hybrid Single-Particle Lagrangian Integrated Trajectory model (HYSPLIT) model. Journal of Geophysical Research, 2006, 111, .	3.3	107
137	Optical properties and chemical composition of aerosol particles at an urban location: An estimation of the aerosol mass scattering and absorption efficiencies. Journal of Geophysical Research, 2012, 117, .	3.3	107
138	Effect of exposure to polycyclic aromatic hydrocarbons on basal ganglia and attention-deficit hyperactivity disorder symptoms in primary school children. Environment International, 2017, 105, 12-19.	10.0	106
139	Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. Environment International, 2020, 135, 105345.	10.0	106
140	Synthesis of zeolites by alkaline activation of ferro-aluminous fly ash. Fuel, 1995, 74, 1226-1231.	6.4	104
141	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. Atmospheric Chemistry and Physics, 2011, 11, 2917-2931.	4.9	104
142	Daily and hourly sourcing of metallic and mineral dust in urban air contaminated by traffic and coal-burning emissions. Atmospheric Environment, 2013, 68, 33-44.	4.1	104
143	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.	4.9	104
144	Chemical profiling of PM10 from urban road dust. Science of the Total Environment, 2018, 634, 41-51.	8.0	104

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145	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.	8.0	103
146	The regime of intense desert dust episodes in the Mediterranean based on contemporary satellite observations and ground measurements. Atmospheric Chemistry and Physics, 2013, 13, 12135-12154.	4.9	103
147	Organic and elemental carbon concentrations in carbonaceous aerosols during summer and winter sampling campaigns in Barcelona, Spain. Atmospheric Environment, 2006, 40, 2180-2193.	4.1	102
148	Variations of urban aerosols in the western Mediterranean. Atmospheric Environment, 2008, 42, 9052-9062.	4.1	102
149	Leaching of potential hazardous elements of coal cleaning rejects. Environmental Monitoring and Assessment, 2011, 175, 109-126.	2.7	102
150	Brazilian coal mining residues and sulphide oxidation by Fenton's reaction: An accelerated weathering procedure to evaluate possible environmental impact. Journal of Hazardous Materials, 2011, 186, 516-525.	12.4	102
151	Solid Particulate Matter in the Atmosphere. Elements, 2010, 6, 215-222.	0.5	101
152	Environmental geochemistry of the feed coals and their combustion by-products from two coal-fired power plants in Xinjiang Province, Northwest China. Fuel, 2012, 95, 446-456.	6.4	101
153	Outdoor infiltration and indoor contribution of UFP and BC, OC, secondary inorganic ions and metals in PM2.5 in schools. Atmospheric Environment, 2015, 106, 129-138.	4.1	100
154	Short-term effects of particulate matter constituents on daily hospitalizations and mortality in five South-European cities: Results from the MED-PARTICLES project. Environment International, 2015, 75, 151-158.	10.0	100
155	Modulation of Saharan dust export by the North African dipole. Atmospheric Chemistry and Physics, 2015, 15, 7471-7486.	4.9	99
156	Tracers and impact of open burning of rice straw residues on PM in Eastern Spain. Atmospheric Environment, 2008, 42, 1941-1957.	4.1	98
157	Variations of levels and composition of PM10 and PM2.5 at an insular site in the Western Mediterranean. Atmospheric Research, 2009, 94, 285-299.	4.1	96
158	Traffic induced particle resuspension in Paris: Emission factors and source contributions. Atmospheric Environment, 2016, 129, 114-124.	4.1	96
159	Seasonal evolution of suspended particles around a large coal-fired power station: Chemical characterization. Atmospheric Environment, 1998, 32, 719-731.	4.1	95
160	Origin of inorganic and organic components of PM 2.5 in subway stations of Barcelona, Spain. Environmental Pollution, 2016, 208, 125-136.	7.5	95
161	Evaluation of the potential of volcanic rock waste from southern Brazil as a natural soil fertilizer. Journal of Cleaner Production, 2017, 142, 2700-2706.	9.3	94
162	Iron sulfide precipitation sequence in Albian coals from the Maestrazgo Basin, southeastern Iberian Range, northeastern Spain. International Journal of Coal Geology, 1989, 11, 171-189.	5.0	93

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163	Short-term effects of particulate matter on total mortality during Saharan dust outbreaks: A case-crossover analysis in Madrid (Spain). Science of the Total Environment, 2011, 412-413, 386-389.	8.0	93
164	Nanoparticles from construction wastes: A problem to health and the environment. Journal of Cleaner Production, 2019, 219, 236-243.	9.3	93
165	Geochemistry of regional background aerosols in the Western Mediterranean. Atmospheric Research, 2009, 94, 422-435.	4.1	92
166	A comprehensive assessment of PM emissions from paved roads: Real-world Emission Factors and intense street cleaning trials. Science of the Total Environment, 2010, 408, 4309-4318.	8.0	92
167	Discriminating the regional and urban contributions in the North-Western Mediterranean: PM levels and composition. Atmospheric Environment, 2010, 44, 1587-1596.	4.1	92
168	Variability of aerosol optical properties in the Western Mediterranean Basin. Atmospheric Chemistry and Physics, 2011, 11, 8189-8203.	4.9	92
169	Arsenic speciation of atmospheric particulate matter (PM10) in an industrialised urban site in southwestern Spain. Chemosphere, 2007, 66, 1485-1493.	8.2	91
170	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. Science of the Total Environment, 2020, 701, 134474.	8.0	91
171	Quantifying the Impact of Residential Heating on the Urban Air Quality in a Typical European Coal Combustion Region. Environmental Science & Technology, 2009, 43, 7964-7970.	10.0	90
172	Impact of harbour emissions on ambient PM10 and PM2.5 in Barcelona (Spain): Evidences of secondary aerosol formation within the urban area. Science of the Total Environment, 2016, 571, 237-250.	8.0	90
173	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. Atmospheric Chemistry and Physics, 2011, 11, 9415-9430.	4.9	89
174	Events Affecting Levels and Seasonal Evolution of Airborne Particulate Matter Concentrations in the Western Mediterranean. Environmental Science & Technology, 2003, 37, 216-222.	10.0	88
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