Andres Alastuey

List of Publications by Year
in descending order

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393	33,115	2675	6836
papers	citations	95 h-index	155 g-index

515	515	515	19154
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Source apportionment of particulate matter in Europe: A review of methods and results. Journal of Aerosol Science, 2008, 39, 827-849.	3.8	812
2	Synthesis of zeolites from coal fly ash: an overview. International Journal of Coal Geology, 2002, 50, 413-423.	5.0	707
3	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
4	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
5	PM10 and PM2.5 source apportionment in the Barcelona Metropolitan area, Catalonia, Spain. Atmospheric Environment, 2001, 35, 6407-6419.	4.1	563
6	Speciation and origin of PM10 and PM2.5 in selected European cities. Atmospheric Environment, 2004, 38, 6547-6555.	4.1	531
7	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. Atmospheric Environment, 2009, 43, 2770-2780.	4.1	492
8	Saharan dust contributions to PM10 and TSP levels in Southern and Eastern Spain. Atmospheric Environment, 2001, 35, 2433-2447.	4.1	482
9	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
10	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
11	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
12	Spatial and chemical patterns of PM10 in road dust deposited in urban environment. Atmospheric Environment, 2009, 43, 1650-1659.	4.1	387
13	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
14	African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. Atmospheric Environment, 2009, 43, 4266-4277.	4.1	375
15	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
16	Geochemical variations in aeolian mineral particles from the Saharaâ€“Sahel Dust Corridor. Chemosphere, 2006, 65, 261-270.	8.2	330
17	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
18	Coarse Particles From Saharan Dust and Daily Mortality. Epidemiology, 2008, 19, 800-807.	2.7	301

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19	Sources and variability of inhalable road dust particles in three European cities. Atmospheric Environment, 2011, 45, 6777-6787.	4.1	294
20	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
21	Characterization and intercomparison of aerosol absorption photometers: result of two intercomparison workshops. Atmospheric Measurement Techniques, 2011, 4, 245-268.	3.1	284
22	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in fiveÂsouthern European cities. Atmospheric Chemistry and Physics, 2016, 16, 3289-3309.	4.9	267
23	Environmental characterization of burnt coal gangue banks at Yangquan, Shanxi Province, China. International Journal of Coal Geology, 2008, 75, 93-104.	5.0	266
24	Speciation and origin of PM10 and PM2.5 in Spain. Journal of Aerosol Science, 2004, 35, 1151-1172.	3.8	246
25	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
26	Child exposure to indoor and outdoor air pollutants in schools in Barcelona, Spain. Environment International, 2014, 69, 200-212.	10.0	243
27	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
28	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
29	Chemical Tracers of Particulate Emissions from Commercial Shipping. Environmental Science & Technology, 2009, 43, 7472-7477.	10.0	227
30	A Fast Method for Recycling Fly Ash:Â Microwave-Assisted Zeolite Synthesis. Environmental Science & Technology, 1997, 31, 2527-2533.	10.0	225
31	Monitoring of PM10 and PM2.5 around primary particulate anthropogenic emission sources. Atmospheric Environment, 2001, 35, 845-858.	4.1	220
32	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
33	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
34	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign. Atmospheric Chemistry and Physics, 2008, 8, 111-128.	4.9	215
35	Wet and dry African dust episodes over eastern Spain. Journal of Geophysical Research, 2005, 110, .	3.3	210
36	Variability in regional background aerosols within the Mediterranean. Atmospheric Chemistry and Physics, 2009, 9, 4575-4591.	4.9	210

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37	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
38	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
39	Synthesis of zeolites from fly ash at pilot plant scale. Examples of potential applications. Fuel, 2001, 80, 857-865.	6.4	201
40	Synthesis of Na-zeolites from fly ash. Fuel, 1997, 76, 793-799.	6.4	197
41	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
42	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
43	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
44	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
45	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
46	Identification and characterisation of sources of PM10 in Madrid (Spain) by statistical methods. Atmospheric Environment, 2004, 38, 435-447.	4.1	173
47	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
48	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
49	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
50	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. Science of the Total Environment, 2010, 408, 4569-4579.	8.0	163
51	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
52	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
53	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. Atmospheric Environment, 2007, 41, 913-922.	4.1	158
54	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

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55	Sources of indoor and outdoor PM2.5 concentrations in primary schools. Science of the Total Environment, 2014, 490, 757-765.	8.0	153
56	Source apportionment analysis of atmospheric particulates in an industrialised urban site in southwestern Spain. Atmospheric Environment, 2002, 36, 3113-3125.	4.1	147
57	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
58	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
59	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
60	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
61	Inter-comparison of receptor models for PM source apportionment: Case study in an industrial area. Atmospheric Environment, 2008, 42, 3820-3832.	4.1	134
62	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
63	Monitoring the impact of desert dust outbreaks for air quality for health studies. Environment International, 2019, 130, 104867.	10.0	134
64	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
65	A European aerosol phenomenology-5: Climatology of black carbon optical properties at 9 regional background sites across Europe. Atmospheric Environment, 2016, 145, 346-364.	4.1	132
66	Size Fractionate Particulate Matter, Vehicle Traffic, and Case-Specific Daily Mortality in Barcelona, Spain. Environmental Science & Technology, 2009, 43, 4707-4714.	10.0	130
67	Biomass burning contributions to urban aerosols in a coastal Mediterranean City. Science of the Total Environment, 2012, 427-428, 175-190.	8.0	130
68	Comparative analysis of organic and elemental carbon concentrations in carbonaceous aerosols in three European cities. Atmospheric Environment, 2007, 41, 5972-5983.	4.1	128
69	Origin of high summer PM10 and TSP concentrations at rural sites in Eastern Spain. Atmospheric Environment, 2002, 36, 3101-3112.	4.1	127
70	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
71	Comparison of the results obtained by four receptor modelling methods in aerosol source apportionment studies. Atmospheric Environment, 2009, 43, 3989-3997.	4.1	125
72	Saharan dust, particulate matter and cause-specific mortality: A caseâ€“crossover study in Barcelona (Spain). Environment International, 2012, 48, 150-155.	10.0	125

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73	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
74	2001â€“2012 trends on air quality in Spain. Science of the Total Environment, 2014, 490, 957-969.	8.0	123
75	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
76	Tracing surface and airborne SARS-CoV-2 RNA inside public buses and subway trains. Environment International, 2021, 147, 106326.	10.0	119
77	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.	3.1	118
78	Trace element variation in size-fractionated African desert dusts. Journal of Arid Environments, 2008, 72, 1034-1045.	2.4	117
79	Spatial and temporal variability of carbonaceous aerosols: Assessing the impact of biomass burning in the urban environment. Science of the Total Environment, 2017, 578, 613-625.	8.0	117
80	Mineral composition of atmospheric particulates around a large coal-fired power station. Atmospheric Environment, 1996, 30, 3557-3572.	4.1	116
81	Extraction of soluble major and trace elements from fly ash in open and closed leaching systems. Fuel, 2001, 80, 801-813.	6.4	116
82	Seasonal evolution of suspended particles around a large coal-fired power station. Atmospheric Environment, 1998, 32, 1963-1978.	4.1	115
83	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
84	Urban NH3 levels and sources in a Mediterranean environment. Atmospheric Environment, 2012, 57, 153-164.	4.1	115
85	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
86	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
87	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
88	Identification of PM sources by principal component analysis (PCA) coupled with wind direction data. Chemosphere, 2006, 65, 2411-2418.	8.2	112
89	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
90	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

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91	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
92	Synthesis of zeolites by alkaline activation of ferro-aluminous fly ash. Fuel, 1995, 74, 1226-1231.	6.4	104
93	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. Atmospheric Chemistry and Physics, 2011, 11, 2917-2931.	4.9	104
94	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
95	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
96	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.	3.1	104
97	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
98	Variations of urban aerosols in the western Mediterranean. Atmospheric Environment, 2008, 42, 9052-9062.	4.1	102
99	Identification of fine (PM1) and coarse (PM10-1) sources of particulate matter in an urban environment. Atmospheric Environment, 2014, 89, 593-602.	4.1	100
100	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
101	Modulation of Saharan dust export by the North African dipole. Atmospheric Chemistry and Physics, 2015, 15, 7471-7486.	4.9	99
102	Tracers and impact of open burning of rice straw residues on PM in Eastern Spain. Atmospheric Environment, 2008, 42, 1941-1957.	4.1	98
103	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
104	Traffic induced particle resuspension in Paris: Emission factors and source contributions. Atmospheric Environment, 2016, 129, 114-124.	4.1	96
105	Seasonal evolution of suspended particles around a large coal-fired power station: Chemical characterization. Atmospheric Environment, 1998, 32, 719-731.	4.1	95
106	Ice nucleating particles in the Saharan Air Layer. Atmospheric Chemistry and Physics, 2016, 16, 9067-9087.	4.9	93
107	Geochemistry of regional background aerosols in the Western Mediterranean. Atmospheric Research, 2009, 94, 422-435.	4.1	92
108	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

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109	Discriminating the regional and urban contributions in the North-Western Mediterranean: PM levels and composition. Atmospheric Environment, 2010, 44, 1587-1596.	4.1	92
110	Variability of aerosol optical properties in the Western Mediterranean Basin. Atmospheric Chemistry and Physics, 2011, 11, 8189-8203.	4.9	92
111	Arsenic speciation of atmospheric particulate matter (PM10) in an industrialised urban site in southwestern Spain. Chemosphere, 2007, 66, 1485-1493.	8.2	91
112	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
113	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
114	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
115	Influence of sea breeze circulation and road traffic emissions on the relationship between particle number, black carbon, PM1, PM2.5 and PM2.5â€“10 concentrations in a coastal city. Atmospheric Environment, 2008, 42, 6523-6534.	4.1	86
116	On the spatial distribution and evolution of ultrafine particles in Barcelona. Atmospheric Chemistry and Physics, 2013, 13, 741-759.	4.9	85
117	Lanthanoid Geochemistry of Urban Atmospheric Particulate Matter. Environmental Science & Technology, 2008, 42, 6502-6507.	10.0	84
118	Evolution of pyrite mud weathering and mobility of heavy metals in the Guadiamar valley after the AznalcÃ³llar spill, south-west Spain. Science of the Total Environment, 1999, 242, 41-55.	8.0	82
119	Ge distribution in the Wulantuga high-germanium coal deposit in the Shengli coalfield, Inner Mongolia, northeastern China. International Journal of Coal Geology, 2009, 78, 16-26.	5.0	82
120	Intense winter atmospheric pollution episodes affecting the Western Mediterranean. Science of the Total Environment, 2010, 408, 1951-1959.	8.0	80
121	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees,) Tj ETQq1 1 0.784314 rgBT /Ov	4.9	80
122	Lessons from the COVID-19 air pollution decrease in Spain: Now what?. Science of the Total Environment, 2021, 779, 146380.	8.0	80
123	Identification of FCC refinery atmospheric pollution events using lanthanoid- and vanadium-bearing aerosols. Atmospheric Environment, 2008, 42, 7851-7861.	4.1	79
124	Comparative chemical mass closure of fine and coarse aerosols at two sites in south and west Europe: Implications for EU air pollution policies. Atmospheric Environment, 2007, 41, 315-326.	4.1	77
125	Identification and Chemical Characterization of Industrial Particulate Matter Sources in Southwest Spain. Journal of the Air and Waste Management Association, 2006, 56, 993-1006.	1.9	76
126	Influence of Sampling Artefacts on Measured PM, OC, and EC Levels in Carbonaceous Aerosols in an Urban Area. Aerosol Science and Technology, 2006, 40, 107-117.	3.1	76

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127	Mineralogy and geochemistry of the Late Permian coals in the Huayingshan coal-bearing area, Sichuan Province, China. International Journal of Coal Geology, 2012, 94, 271-282.	5.0	76
128	Evidence of biomass burning aerosols in the Barcelona urban environment during winter time. Atmospheric Environment, 2013, 72, 81-88.	4.1	76
129	AÂEuropean aerosol phenomenology â€“ 6: scattering properties of atmospheric aerosol particles from 28ÂACTRIS sites. Atmospheric Chemistry and Physics, 2018, 18, 7877-7911.	4.9	76
130	Mineralogy and geochemistry of coal from the Liupanshui mining district, Guizhou, south China. International Journal of Coal Geology, 2000, 45, 21-37.	5.0	75
131	Influence of traffic on the PM10 and PM2.5 urban aerosol fractions in Madrid (Spain). Science of the Total Environment, 2004, 334-335, 111-123.	8.0	75
132	Characterisation of local and external contributions of atmospheric particulate matter at a background coastal site. Atmospheric Environment, 2007, 41, 1-17.	4.1	75
133	A combined analysis of backward trajectories and aerosol chemistry to characterise long-range transport episodes of particulate matter: The Madrid air basin, a case study. Science of the Total Environment, 2008, 390, 495-506.	8.0	75
134	A multidisciplinary approach to characterise exposure risk and toxicological effects of PM10 and PM2.5 samples in urban environments. Ecotoxicology and Environmental Safety, 2012, 78, 327-335.	6.0	75
135	Petrology, mineralogy and geochemistry of the Permian and Triassic coals in the Leping area, Jiangxi Province, southeast China. International Journal of Coal Geology, 2001, 48, 23-45.	5.0	74
136	Emission factors from road dust resuspension in a Mediterranean freeway. Atmospheric Environment, 2012, 61, 580-587.	4.1	73
137	Neural network model for the prediction of PM10 daily concentrations in two sites in the Western Mediterranean. Science of the Total Environment, 2013, 463-464, 875-883.	8.0	73
138	Summer ammonia measurements in a densely populated Mediterranean city. Atmospheric Chemistry and Physics, 2012, 12, 7557-7575.	4.9	72
139	Geological controls on the mineral matter and trace elements of coals from the Fuxin basin, Liaoning Province, northeast China. International Journal of Coal Geology, 1997, 34, 89-109.	5.0	71
140	Monitoring of atmospheric particulate matter around sources of secondary inorganic aerosol. Atmospheric Environment, 2004, 38, 4979-4992.	4.1	70
141	Determination of element affinities by density fractionation of bulk coal samples. Fuel, 2001, 80, 83-96.	6.4	69
142	Effect of fireworks events on urban background trace metal aerosol concentrations: Is the cocktail worth the show?. Journal of Hazardous Materials, 2010, 183, 945-949.	12.4	69
143	On the quantification of atmospheric carbonate carbon by thermal/optical analysis protocols. Atmospheric Measurement Techniques, 2011, 4, 2409-2419.	3.1	69
144	Chemical fingerprint and impact of shipping emissions over a western Mediterranean metropolis: Primary and aged contributions. Science of the Total Environment, 2013, 463-464, 497-507.	8.0	69

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145	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.	4.9	69
146	Spatiotemporally resolved black carbon concentration, schoolchildren's exposure and dose in <scp>B</scp> arcelona. Indoor Air, 2016, 26, 391-402.	4.3	69
147	PM levels in the Basque Country (Northern Spain): analysis of a 5-year data record and interpretation of seasonal variations. Atmospheric Environment, 2003, 37, 2879-2891.	4.1	68
148	Natural sources of atmospheric aerosols influencing air quality across Europe. Science of the Total Environment, 2014, 472, 825-833.	8.0	68
149	Speciation and sources of atmospheric aerosols in a highly industrialised emerging mega-city in Central China. Journal of Environmental Monitoring, 2006, 8, 1049-1059.	2.1	67
150	Urban aerosol size distributions over the Mediterranean city of Barcelona, NE Spain. Atmospheric Chemistry and Physics, 2012, 12, 10693-10707.	4.9	67
151	AIRUSE-LIFE +: estimation of natural source contributions to urban ambient air PM₁₀ and PM_{2.â€‰5} concentrations in southern Europe â€“ implications to compliance with limit values. Atmospheric Chemistry and Physics, 2017, 17, 3673-3685.	4.9	67
152	Spatial and temporal variability of PM levels and composition in a complex summer atmospheric scenario in Barcelona (NE Spain). Atmospheric Environment, 2005, 39, 5343-5361.	4.1	66
153	Arsenic speciation study of PM2.5 in an urban area near a copper smelter. Atmospheric Environment, 2008, 42, 6487-6495.	4.1	66
154	Assessment of airborne particulate levels in Spain in relation to the new EU-directive. Atmospheric Environment, 2001, 35, 43-53.	4.1	65
155	Determination of Drugs of Abuse in Airborne Particles by Pressurized Liquid Extraction and Liquid Chromatography-Electrospray-Tandem Mass Spectrometry. Analytical Chemistry, 2009, 81, 4382-4388.	6.5	65
156	African dust contribution to ambient aerosol levels across central Spain: Characterization of long-range transport episodes of desert dust. Atmospheric Research, 2013, 127, 117-129.	4.1	65
157	An inter-comparison of PM10 source apportionment using PCA and PMF receptor models in three European sites. Environmental Science and Pollution Research, 2016, 23, 15133-15148.	5.3	65
158	Characterization of atmospheric black carbon and co-pollutants in urban and rural areas of Spain. Atmospheric Environment, 2017, 169, 36-53.	4.1	65
159	African dust and air quality over Spain: Is it only dust that matters?. Science of the Total Environment, 2019, 686, 737-752.	8.0	65
160	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	3.1	65
161	Short-term health effects from outdoor exposure to biomass burning emissions: A review. Science of the Total Environment, 2021, 781, 146739.	8.0	64
162	Source apportionment for African dust outbreaks over the Western Mediterranean using the HYSPLIT model. Atmospheric Research, 2011, 99, 518-527.	4.1	63

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163	Source apportionment of ambient PM2.5 at five spanish centres of the european community respiratory health survey (ECRHS II). Atmospheric Environment, 2007, 41, 1395-1406.	4.1	62
164	Atmospheric particulate matter and air quality in the Mediterranean: a review. Environmental Chemistry Letters, 2007, 5, 1-7.	16.2	62
165	Characterising exposure to PM aerosols for an epidemiological study. Atmospheric Environment, 2008, 42, 1552-1568.	4.1	62
166	Source apportionment of fine PM and sub-micron particle number concentrations at a regional background site in the western Mediterranean: a 2.5 year study. Atmospheric Chemistry and Physics, 2013, 13, 5173-5187.	4.9	62
167	Field comparison of portable and stationary instruments for outdoor urban air exposure assessments. Atmospheric Environment, 2015, 123, 220-228.	4.1	62
168	Effect of rain events on the mobility of road dust load in two Dutch and Spanish roads. Atmospheric Environment, 2012, 62, 352-358.	4.1	61
169	Ultrafine particle and fine trace metal (As, Cd, Cu, Pb and Zn) pollution episodes induced by industrial emissions in Huelva, SW Spain. Atmospheric Environment, 2012, 61, 507-517.	4.1	61
170	A review of methods for long term in situ characterization of aerosol dust. Aeolian Research, 2012, 6, 55-74.	2.7	61
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