

Marco Pandolfi

List of Publications by Citations

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95
papers

5,320
citations

40
h-index

72
g-index

102
ext. papers

6,001
ext. citations

6.3
avg, IF

5.13
L-index

#	Paper	IF	Citations
95	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. <i>Atmospheric Environment</i> , 2009 , 43, 2770-2780	5.3	404
94	Spatial and chemical patterns of PM10 in road dust deposited in urban environment. <i>Atmospheric Environment</i> , 2009 , 43, 1650-1659	5.3	331
93	African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. <i>Atmospheric Environment</i> , 2009 , 43, 4266-4277	5.3	318
92	Sources and variability of inhalable road dust particles in three European cities. <i>Atmospheric Environment</i> , 2011 , 45, 6777-6787	5.3	234
91	Child exposure to indoor and outdoor air pollutants in schools in Barcelona, Spain. <i>Environment International</i> , 2014 , 69, 200-12	12.9	190
90	Source apportionment of PM(10) and PM(2.5) at multiple sites in the strait of Gibraltar by PMF: impact of shipping emissions. <i>Environmental Science and Pollution Research</i> , 2011 , 18, 260-9	5.1	190
89	Transport of desert dust mixed with North African industrial pollutants in the subtropical Saharan Air Layer. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6663-6685	6.8	183
88	Aerosol lidar intercomparison in the framework of the EARLINET project. 3. Raman lidar algorithm for aerosol extinction, backscatter, and lidar ratio. <i>Applied Optics</i> , 2004 , 43, 5370-85	1.7	165
87	Saharan dust intrusions in the Mediterranean area: Three years of Raman lidar measurements. <i>Journal of Geophysical Research</i> , 2006 , 111,		163
86	Chemical characterisation and source apportionment of PM2.5 and PM10 at rural, urban and traffic sites in Navarra (North of Spain). <i>Atmospheric Research</i> , 2011 , 102, 191-205	5.4	149
85	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. <i>Science of the Total Environment</i> , 2010 , 408, 4569-79	10.2	127
84	Inter-comparison of receptor models for PM source apportionment: Case study in an industrial area. <i>Atmospheric Environment</i> , 2008 , 42, 3820-3832	5.3	119
83	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. <i>Environmental Research</i> , 2015 , 142, 495-510	7.9	105
82	2001-2012 trends on air quality in Spain. <i>Science of the Total Environment</i> , 2014 , 490, 957-69	10.2	95
81	A European aerosol phenomenology-5: Climatology of black carbon optical properties at 9 regional background sites across Europe. <i>Atmospheric Environment</i> , 2016 , 145, 346-364	5.3	94
80	Urban NH3 levels and sources in a Mediterranean environment. <i>Atmospheric Environment</i> , 2012 , 57, 153-164	5.6	88
79	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2917-2931	6.8	84

78	Trends of road dust emissions contributions on ambient air particulate levels at rural, urban and industrial sites in southern Spain. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3533-3544	6.8	83
77	A comprehensive assessment of PM emissions from paved roads: real-world Emission Factors and intense street cleaning trials. <i>Science of the Total Environment</i> , 2010 , 408, 4309-18	10.2	83
76	Outdoor infiltration and indoor contribution of UFP and BC, OC, secondary inorganic ions and metals in PM _{2.5} in schools. <i>Atmospheric Environment</i> , 2015 , 106, 129-138	5.3	82
75	Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: implications for air quality policy. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6185-6206	6.8	80
74	Geochemistry of regional background aerosols in the Western Mediterranean. <i>Atmospheric Research</i> , 2009 , 94, 422-435	5.4	76
73	Variability of aerosol optical properties in the Western Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8189-8203	6.8	73
72	Identification of fine (PM ₁) and coarse (PM ₁₀₋₁) sources of particulate matter in an urban environment. <i>Atmospheric Environment</i> , 2014 , 89, 593-602	5.3	72
71	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9415-9430	6.8	72
70	Traffic induced particle resuspension in Paris: Emission factors and source contributions. <i>Atmospheric Environment</i> , 2016 , 129, 114-124	5.3	69
69	Effect of fireworks events on urban background trace metal aerosol concentrations: is the cocktail worth the show?. <i>Journal of Hazardous Materials</i> , 2010 , 183, 945-9	12.8	60
68	Spatiotemporally resolved black carbon concentration, schoolchildren's exposure and dose in Barcelona. <i>Indoor Air</i> , 2016 , 26, 391-402	5.4	56
67	A new methodology to assess the performance and uncertainty of source apportionment models II: The results of two European intercomparison exercises. <i>Atmospheric Environment</i> , 2015 , 123, 240-250	5.3	54
66	Spatio-temporal variability of concentrations and speciation of particulate matter across Spain in the CALIOPE modeling system. <i>Atmospheric Environment</i> , 2012 , 46, 376-396	5.3	53
65	Effect of atmospheric mixing layer depth variations on urban air quality and daily mortality during Saharan dust outbreaks. <i>Science of the Total Environment</i> , 2014 , 494-495, 283-9	10.2	50
64	An inter-comparison of PM ₁₀ source apportionment using PCA and PMF receptor models in three European sites. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 15133-48	5.1	48
63	Evaluating urban PM ₁₀ pollution benefit induced by street cleaning activities. <i>Atmospheric Environment</i> , 2009 , 43, 4472-4480	5.3	47
62	Short-term variability of mineral dust, metals and carbon emission from road dust resuspension. <i>Atmospheric Environment</i> , 2013 , 74, 134-140	5.3	46
61	A European aerosol phenomenology II: scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7877-7911	6.8	46

60	Summer ammonia measurements in a densely populated Mediterranean city. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7557-7575	6.8	45
59	Near-real-time processing of a ceilometer network assisted with sun-photometer data: monitoring a dust outbreak over the Iberian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11861-11876	6.8	43
58	Effect of rain events on the mobility of road dust load in two Dutch and Spanish roads. <i>Atmospheric Environment</i> , 2012 , 62, 352-358	5.3	41
57	Concentrations, sources and geochemistry of airborne particulate matter at a major European airport. <i>Journal of Environmental Monitoring</i> , 2010 , 12, 854-62		41
56	Trends of nitrogen oxides in ambient air in nine European cities between 1999 and 2010. <i>Atmospheric Environment</i> , 2015 , 117, 234-241	5.3	40
55	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> , 2016 , 16, 12567-12586	6.8	40
54	Raman lidar observations of aerosol emitted during the 2002 Etna eruption. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	40
53	Peculiarities in atmospheric particle number and size-resolved speciation in an urban area in the western Mediterranean: Results from the DAURE campaign. <i>Atmospheric Environment</i> , 2011 , 45, 5282-5293	5.3	38
52	Ambient air SO ₂ patterns in 6 European cities. <i>Atmospheric Environment</i> , 2013 , 79, 236-247	5.3	37
51	African dust and air quality over Spain: Is it only dust that matters?. <i>Science of the Total Environment</i> , 2019 , 686, 737-752	10.2	34
50	Manganese in the urban atmosphere: identifying anomalous concentrations and sources. <i>Environmental Science and Pollution Research</i> , 2011 , 18, 173-83	5.1	34
49	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> , 2014 , 119, 4978-5010	4.4	33
48	Phenomenology of high-ozone episodes in NE Spain. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2817-2838	6.8	33
47	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4353-4392	4	32
46	Trends analysis of PM source contributions and chemical tracers in NE Spain during 2004-2014: a multi-exponential approach. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11787-11805	6.8	31
45	Impact of traffic intensity and pavement aggregate size on road dust particles loading. <i>Atmospheric Environment</i> , 2013 , 77, 711-717	5.3	30
44	Multidecadal trend analysis of in situ aerosol radiative properties around the world. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8867-8908	6.8	30
43	New particle formation at ground level and in the vertical column over the Barcelona area. <i>Atmospheric Research</i> , 2015 , 164-165, 118-130	5.4	29

42	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> , 2014 , 14, 4279-4295	6.8	28
41	Receptor models application to multi-year ambient PM10 measurements in an industrialized ceramic area: Comparison of source apportionment results. <i>Atmospheric Environment</i> , 2008 , 42, 9007-9017	5.7	28
40	Spatiotemporal evolution of a severe winter dust event in the western Mediterranean: Aerosol optical and physical properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4052-4069	4.4	27
39	Climatology of aerosol optical properties and black carbon mass absorption cross section at a remote high-altitude site in the western Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6443-6460	6.8	27
38	Overview of the NOAA/ESRL Federated Aerosol Network. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 123-135	6.1	26
37	Arsenic species in atmospheric particulate matter as tracer of the air quality of Doñana Natural Park (SW Spain). <i>Chemosphere</i> , 2015 , 119, 1296-1303	8.4	23
36	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8991-9019	6.8	22
35	Changes in black carbon emissions over Europe due to COVID-19 lockdowns. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2675-2692	6.8	22
34	Real-time indoor and outdoor measurements of black carbon at primary schools. <i>Atmospheric Environment</i> , 2015 , 120, 417-426	5.3	20
33	Continuous atmospheric boundary layer observations in the coastal urban area of Barcelona during SAPUSS. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4983-4996	6.8	20
32	Identification of topographic features influencing aerosol observations at high altitude stations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12289-12313	6.8	19
31	Overview of the meteorology and transport patterns during the DAURE field campaign and their impact to PM observations. <i>Atmospheric Environment</i> , 2013 , 77, 607-620	5.3	18
30	Transport of volcanic aerosol in the troposphere: The case study of the 2002 Etna plume. <i>Journal of Geophysical Research</i> , 2006 , 111,		18
29	Synergistic effect of the occurrence of African dust outbreaks on atmospheric pollutant levels in the Madrid metropolitan area. <i>Atmospheric Research</i> , 2019 , 226, 208-218	5.4	17
28	Determination of direct and fugitive PM emissions in a Mediterranean harbour by means of classic and novel tracer methods. <i>Journal of Environmental Management</i> , 2009 , 91, 133-41	7.9	17
27	Outdoor and indoor particle characterization from a large and uncontrolled combustion of a tire landfill. <i>Science of the Total Environment</i> , 2017 , 593-594, 543-551	10.2	16
26	Impact of aerosol particle sources on optical properties in urban, regional and remote areas in the north-western Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1149-1169	6.8	15
25	Retrieval of aerosol properties from ceilometer and photometer measurements: long-term evaluation with in situ data and statistical analysis at Montsec (southern Pyrenees). <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3255-3267	4	13

24	Spatio-temporal patterns of high summer ozone events in the Madrid Basin, Central Spain. <i>Atmospheric Environment</i> , 2018 , 185, 207-220	5.3	12
23	Simple estimates of vehicle-induced resuspension rates. <i>Journal of Environmental Management</i> , 2011 , 92, 2855-9	7.9	11
22	Vertical and horizontal fall-off of black carbon and NO within urban blocks. <i>Science of the Total Environment</i> , 2019 , 686, 236-245	10.2	10
21	Long-range and local air pollution: what can we learn from chemical speciation of particulate matter at paired sites?. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 409-429	6.8	10
20	Impact of aerosol microphysical properties on mass scattering cross sections. <i>Journal of Aerosol Science</i> , 2017 , 112, 68-82	4.3	8
19	Biomass burning and urban emission impacts in the Andes Cordillera region based on in situ measurements from the Chacaltaya observatory, Bolivia (5240 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14805-14824	6.8	8
18	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17185-17223	6.8	7
17	Development of a tunable IR lidar system. <i>Optics and Lasers in Engineering</i> , 2002 , 37, 521-532	4.6	6
16	Aircraft vertical profiles during summertime regional and Saharan dust scenarios over the north-western Mediterranean basin: aerosol optical and physical properties. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 431-455	6.8	6
15	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> , 2021 , 795, 148728	10.2	4
14	The topography contribution to the influence of the atmospheric boundary layer at high altitude stations 2017 ,		3
13	Applicability of benchtop multi-wavelength polar photometers to off-line measurements of the Multi-Angle Absorption Photometer (MAAP) samples. <i>Journal of Aerosol Science</i> , 2021 , 152, 105701	4.3	3
12	Determination of the multiple-scattering correction factor and its cross-sensitivity to scattering and wavelength dependence for different AE33 Aethalometer filter tapes: a multi-instrumental approach. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6335-6355	4	3
11	Measurement campaign of atmospheric water vapour and aerosols in southern Italy 2003 ,		2
10	CNR-IMAA lidar systems for aerosol, clouds, and water vapour study 2005 , 5984, 87		2
9	Systematic measurements of the aerosol extinction-to-backscatter ratio 2005 , 5653, 77		2
8	Impact of mixing layer height variations on air pollutant concentrations and health in a European urban area: Madrid (Spain), a case study. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 41702-41716	5.1	2
7	A European aerosol phenomenology-6: Scattering properties of atmospheric aerosol particles from 28 ACTRIS sites 2017 ,		1

6	Biomass-burning and urban emission impacts in the Andes Cordillera region based on in-situ measurements from the Chacaltaya observatory, Bolivia (5240 m a.s.l.) 2019 ,		1
5	Systematic tropospheric aerosol lidar observations 2004 ,		1
4	Overview: On the transport and transformation of pollutants in the outflow of major population centres Observational data from the EMeRGe European intensive operational period in summer 2017. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5877-5924	6.8	0
3	Five years of lidar ratio measurements over Potenza, Italy 2006 , 6367, 9		
2	Lidar measurement campaign at CNR-IMAA in the framework of the EAQUATE Italian phase 2005 , 5979, 410		
1	Aerosol Intensive Optical Properties in the NMMB-MONARCH. <i>Springer Proceedings in Complexity</i> , 2020 , 413-419		0.3