Noemi Perez

List of Publications by Citations

96 papers	4,950 citations	38 h-index	69 g-index
106 ext. papers	5,599 ext. citations	6.6 avg, IF	5.11 L-index

#	Paper	IF	Citations
96	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. *Atmospheric Environment*, **2009**, 43, 2770-2780	5.3	404
95	African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. *Atmospheric Environment*, **2009**, 43, 4266-4277	5.3	318
94	Partitioning of major and trace components in PM10PM2.5PM1 at an urban site in Southern Europe. *Atmospheric Environment*, **2008**, 42, 1677-1691	5.3	205
93	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign. *Atmospheric Chemistry and Physics*, **2008**, 8, 111-128	6.8	188
92	Transport of desert dust mixed with North African industrial pollutants in the subtropical Saharan Air Layer. *Atmospheric Chemistry and Physics*, **2011**, 11, 6663-6685	6.8	183
91	Variability of Particle Number, Black Carbon, and PM10, PM2.5, and PM1 Levels and Speciation: Influence of Road Traffic Emissions on Urban Air Quality. *Aerosol Science and Technology*, **2010**, 44, 487-499	3.4	176
90	Variability in regional background aerosols within the Mediterranean. *Atmospheric Chemistry and Physics*, **2009**, 9, 4575-4591	6.8	173
89	A methodology for the quantification of the net African dust load in air quality monitoring networks. *Atmospheric Environment*, **2007**, 41, 5516-5524	5.3	157
88	Associations between fine and coarse particles and mortality in Mediterranean cities: results from the MED-PARTICLES project. *Environmental Health Perspectives*, **2013**, 121, 932-8	8.4	154
87	The effects of particulate matter sources on daily mortality: a case-crossover study of Barcelona, Spain. *Environmental Health Perspectives*, **2011**, 119, 1781-7	8.4	143
86	Size fractionate particulate matter, vehicle traffic, and case-specific daily mortality in Barcelona, Spain. *Environmental Science & Technology*, **2009**, 43, 4707-14	10.3	112
85	Interpretation of the variability of levels of regional background aerosols in the Western Mediterranean. *Science of the Total Environment*, **2008**, 407, 527-40	10.2	109
84	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
83	Desert Dust Outbreaks in Southern Europe: Contribution to Daily PM Concentrations and Short-Term Associations with Mortality and Hospital Admissions. *Environmental Health Perspectives*, **2016**, 124, 413-9	8.4	103
82	PM2.5 chemical composition in five European Mediterranean cities: A 1-year study. *Atmospheric Research*, **2015**, 155, 102-117	5.4	95
81	2001-2012 trends on air quality in Spain. *Science of the Total Environment*, **2014**, 490, 957-69	10.2	95
80	Trends of particulate matter (PM_{2.5}) and chemical composition at a regional background site in the Western Mediterranean over the last nine years (2002–2010). *Atmospheric Chemistry and Physics*, **2012**, 12, 8341-8357	6.8	91

79	Monitoring the impact of desert dust outbreaks for air quality for health studies. *Environment International*, **2019**, 130, 104867	12.9	84
78	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, 151-8	12.9	80
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	Lanthanoid geochemistry of urban atmospheric particulate matter. *Environmental Science & Technology*, **2008**, 42, 6502-7	10.3	77
75	Geochemistry of regional background aerosols in the Western Mediterranean. *Atmospheric Research*, **2009**, 94, 422-435	5.4	76
74	Influence of sea breeze circulation and road traffic emissions on the relationship between particle number, black carbon, PM1, PM2.5 and PM2.5–10 concentrations in a coastal city. *Atmospheric Environment*, **2008**, 42, 6523-6534	5.3	70
73	Impact of a European directive on ship emissions on air quality in Mediterranean harbours. *Atmospheric Environment*, **2012**, 61, 661-669	5.3	69
72	Intense winter atmospheric pollution episodes affecting the Western Mediterranean. *Science of the Total Environment*, **2010**, 408, 1951-9	10.2	67
71	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, 237-50	10.2	67
70	Short-term effects of particulate matter on mortality during forest fires in Southern Europe: results of the MED-PARTICLES Project. *Occupational and Environmental Medicine*, **2015**, 72, 323-9	2.1	61
69	Association Between Short-term Exposure to Ultrafine Particles and Mortality in Eight European Urban Areas. *Epidemiology*, **2017**, 28, 172-180	3.1	57
68	Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. *Environment International*, **2020**, 135, 105345	12.9	54
67	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	10.2	53
66	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, 875-83	10.2	52
65	Field comparison of portable and stationary instruments for outdoor urban air exposure assessments. *Atmospheric Environment*, **2015**, 123, 220-228	5.3	51
64	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
63	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	6.8	50
62	Lessons learnt from the first EMEP intensive measurement periods. *Atmospheric Chemistry and Physics*, **2012**, 12, 8073-8094	6.8	48

61	Geochemistry of PM₁₀ over Europe during the EMEP intensive measurement periods in summer 2012 and winter 2013. *Atmospheric Chemistry and Physics*, **2016**, 16, 6107-6129	6.8	42
60	The risks of acute exposure to black carbon in Southern Europe: results from the MED-PARTICLES project. *Occupational and Environmental Medicine*, **2015**, 72, 123-9	2.1	40
59	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
58	Indoor air pollution from biomass cookstoves in rural Senegal. *Energy for Sustainable Development*, **2018**, 43, 224-234	5.4	37
57	Effect of public transport strikes on air pollution levels in Barcelona (Spain). *Science of the Total Environment*, **2018**, 610-611, 1076-1082	10.2	36
56	Biological properties of arginine-based glycerolipidic cationic surfactants. *Green Chemistry*, **2005**, 7, 540	10	36
55	Determinants of aerosol lung-deposited surface area variation in an urban environment. *Science of the Total Environment*, **2015**, 517, 38-47	10.2	35
54	African dust and air quality over Spain: Is it only dust that matters?. *Science of the Total Environment* , **2019**, 686, 737-752	10.2	34
53	Phenomenology of high-ozone episodes in NE Spain. *Atmospheric Chemistry and Physics*, **2017**, 17, 2817-2838	6.8	33
52	Secondary organic aerosol origin in an urban environment: influence of biogenic and fuel combustion precursors. *Faraday Discussions*, **2016**, 189, 337-59	3.6	33
51	Physicochemical variations in atmospheric aerosols recorded at sea onboard the Atlantic Mediterranean 2008 Scholar Ship cruise (Part II): Natural versus anthropogenic influences revealed by PM10 trace element geochemistry. *Atmospheric Environment*, **2010**, 44, 2563-2576	5.3	32
50	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	4	32
49	A European aerosol phenomenology -4: Harmonized concentrations of carbonaceous aerosol at 10 regional background sites across Europe. *Atmospheric Environment*, **2016**, 144, 133-145	5.3	32
48	Trends analysis of PM source contributions and chemical tracers in NE Spain during 2004-2014: a multi-exponential approach. *Atmospheric Chemistry and Physics*, **2016**, 16, 11787-11805	6.8	31
47	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
46	Partitioning of magnetic particles in PM10, PM2.5 and PM1 aerosols in the urban atmosphere of Barcelona (Spain). *Environmental Pollution*, **2014**, 188, 109-17	9.3	28
45	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
44	Spatiotemporal evolution of a severe winter dust event in the western Mediterranean: Aerosol optical and physical properties. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 4052-4069	4.4	27

43	Particulate matter and gaseous pollutants in the Mediterranean Basin: results from the MED-PARTICLES project. *Science of the Total Environment*, **2014**, 488-489, 297-315	10.2	25
42	Phenomenology of summer ozone episodes over the Madrid Metropolitan Area, central Spain. *Atmospheric Chemistry and Physics*, **2018**, 18, 6511-6533	6.8	24
41	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
40	Intercomparison of a portable and two stationary mobility particle sizers for nanoscale aerosol measurements. *Aerosol Science and Technology*, **2016**, 50, 653-668	3.4	21
39	Vertical and horizontal distribution of regional new particle formation events in Madrid. *Atmospheric Chemistry and Physics*, **2018**, 18, 16601-16618	6.8	21
38	Effects of local and Saharan particles on cardiovascular disease mortality. *Epidemiology*, **2012**, 23, 768-9	3.1	20
37	Spatial and temporal variations in inhalable CuZnPb aerosols within the Mexico City pollution plume. *Journal of Environmental Monitoring*, **2008**, 10, 370-8		20
36	Variability of sub-micrometer particle number size distributions and concentrations in the Western Mediterranean regional background. *Tellus, Series B: Chemical and Physical Meteorology*, **2013**, 65, 19243	3.3	19
35	Influence of electronic cigarette vaping on the composition of indoor organic pollutants, particles, and exhaled breath of bystanders. *Environmental Science and Pollution Research*, **2019**, 26, 4654-4666	5.1	18
34	Synergistic effect of the occurrence of African dust outbreaks on atmospheric pollutant levels in the Madrid metropolitan area. *Atmospheric Research*, **2019**, 226, 208-218	5.4	17
33	Intercomparisons of Mobility Size Spectrometers and Condensation Particle Counters in the Frame of the Spanish Atmospheric Observational Aerosol Network. *Aerosol Science and Technology*, **2015**, 49, 777-785	3.4	17
32	Impact of aerosol particle sources on optical properties in urban, regional and remote areas in the north-western Mediterranean. *Atmospheric Chemistry and Physics*, **2018**, 18, 1149-1169	6.8	15
31	Temporal and spatial variability of atmospheric particle number size distributions across Spain. *Atmospheric Environment*, **2018**, 190, 146-160	5.3	14
30	Nanoparticle formation and emission during laser ablation of ceramic tiles. *Journal of Aerosol Science*, **2018**, 126, 152-168	4.3	11
29	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
28	A simplified approach to the indirect evaluation of the chemical composition of atmospheric aerosols from PM mass concentrations. *Atmospheric Environment*, **2010**, 44, 5112-5121	5.3	10
27	Evaluation of the Semi-Continuous OCEC analyzer performance with the EUSAAR2 protocol. *Science of the Total Environment*, **2020**, 747, 141266	10.2	10
26	Physicochemical variations in atmospheric aerosols recorded at sea onboard the Atlantic-Mediterranean 2008 Scholar Ship cruise (Part I): Particle mass concentrations, size ratios, and main chemical components. *Atmospheric Environment*, **2010**, 44, 2552-2562	5.3	8

25	Lessons learnt from the first EMEP intensive measurement periods		8
24	The effect of meteorological conditions and atmospheric composition in the occurrence and development of new particle formation (NPF) events in Europe. *Atmospheric Chemistry and Physics*, **2021**, 21, 3345-3370	6.8	8
23	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. *Atmospheric Chemistry and Physics*, **2021**, 21, 17185-17223	6.8	7
22	Relating high ozone, ultrafine particles, and new particle formation episodes using cluster analysis. *Atmospheric Environment: X*, **2019**, 4, 100051	2.8	6
21	Variability in regional background aerosols within the Mediterranean		6
20	Phenomenology and geographical gradients of atmospheric deposition in southwestern Europe: Results from a multi-site monitoring network. *Science of the Total Environment*, **2020**, 744, 140745	10.2	6
19	Aircraft vertical profiles during summertime regional and Saharan dust scenarios over the north-western Mediterranean basin: aerosol optical and physical properties. *Atmospheric Chemistry and Physics*, **2021**, 21, 431-455	6.8	6
18	Chemical characterization of submicron regional background aerosols in the Western Mediterranean using an Aerosol Chemical Speciation Monitor		4
17	A phenomenology of new particle formation (NPF) at 13 European sites. *Atmospheric Chemistry and Physics*, **2021**, 21, 11905-11925	6.8	4
16	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
15	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign **2007**,		3
14	Trends of particulate matter (PM_{2.5}) and chemical composition at a regional background site in the Western Mediterranean over the last nine years (2002–2010)		3
13	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. *Atmospheric Measurement Techniques*, **2021**, 14, 6335-6355	4	3
12	African dust influence on ambient PM levels in South-Western Europe (Spain and Portugal): A quantitative approach to support implementation of Air Quality Directives. *IOP Conference Series: Earth and Environmental Science*, **2009**, 7, 012018	0.3	2
11	Joint analysis of continental and regional background environments in the Western Mediterranean: PM₁ and PM₁₀ concentrations and composition		2
10	Impact of mixing layer height variations on air pollutant concentrations and health in a European urban area: Madrid (Spain), a case study. *Environmental Science and Pollution Research*, **2020**, 27, 41702-41716	5.1	2
9	Trends in primary and secondary particle number concentrations in urban and regional environments in NE Spain. *Atmospheric Environment*, **2021**, 244, 117982	5.3	2
8	Environmental magnetic fingerprinting of anthropogenic and natural atmospheric deposition over southwestern Europe. *Atmospheric Environment*, **2021**, 261, 118568	5.3	2

List of Publications

7	Microstuctural analysis and determination of PM10 emission sources in an industrial Mediterranean city. *Open Chemistry*, **2014**, 12, 1081-1090	1.6	1
6	Atmospheric Particle Size Distributions in the Spanish Network of Environmental DMAs (REDMAAS). *IOP Conference Series: Earth and Environmental Science*, **2015**, 28, 012001	0.3	1
5	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern~Pyrenees, 1570 m a.s.l.)		1
4	Overview of the SLOPE I and II campaigns: aerosol properties retrieved with lidar and sun‐sky photometer measurements. *Atmospheric Chemistry and Physics*, **2021**, 21, 9269-9287	6.8	1
3	Vertical and horizontal distribution of regional new particle formation events in Madrid **2018**,		1
2	Increasing atmospheric dust transport towards the western Mediterranean over 1948–2020. *Npj Climate and Atmospheric Science*, **2022**, 5,	8	1
1	Public Transport Strikes and Their Relationships With Air Pollution, Mortality, and Hospital Admissions. *American Journal of Epidemiology*, **2020**, 189, 116-119	3.8	