

Jorge Pey

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109
papers

7,786
citations

52
h-index

87
g-index

123
ext. papers

8,572
ext. citations

6.7
avg, IF

5.44
L-index

#	Paper	IF	Citations
109	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
108	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. <i>Atmospheric Environment</i> , 2007 , 41, 7219-7231	5.3	330
107	African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. <i>Atmospheric Environment</i> , 2009 , 43, 4266-4277	5.3	318
106	African dust outbreaks over the Mediterranean Basin during 2001-2011: PM ₁₀ concentrations, phenomenology and trends, and its relation with synoptic and mesoscale meteorology. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1395-1410	6.8	280
105	New considerations for PM, Black Carbon and particle number concentration for air quality monitoring across different European cities. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6207-6227	6.8	269
104	Coarse particles from Saharan dust and daily mortality. <i>Epidemiology</i> , 2008 , 19, 800-7	3.1	269
103	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999-2005. <i>Atmospheric Environment</i> , 2008 , 42, 3964-3979	5.3	258
102	Sources and variability of inhalable road dust particles in three European cities. <i>Atmospheric Environment</i> , 2011 , 45, 6777-6787	5.3	234
101	Partitioning of major and trace components in PM10-PM2.5-PM1 at an urban site in Southern Europe. <i>Atmospheric Environment</i> , 2008 , 42, 1677-1691	5.3	205
100	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
99	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 111-128	6.8	188
98	Variability of Particle Number, Black Carbon, and PM10, PM2.5, and PM1 Levels and Speciation: Influence of Road Traffic Emissions on Urban Air Quality. <i>Aerosol Science and Technology</i> , 2010 , 44, 487-499	3.4	176
97	Variability in regional background aerosols within the Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4575-4591	6.8	173
96	Source apportionment of urban fine and ultra-fine particle number concentration in a Western Mediterranean city. <i>Atmospheric Environment</i> , 2009 , 43, 4407-4415	5.3	160
95	A methodology for the quantification of the net African dust load in air quality monitoring networks. <i>Atmospheric Environment</i> , 2007 , 41, 5516-5524	5.3	157
94	Associations between fine and coarse particles and mortality in Mediterranean cities: results from the MED-PARTICLES project. <i>Environmental Health Perspectives</i> , 2013 , 121, 932-8	8.4	154
93	Short-term associations between fine and coarse particulate matter and hospitalizations in Southern Europe: results from the MED-PARTICLES project. <i>Environmental Health Perspectives</i> , 2013 , 121, 1026-33	8.4	152

92	The effects of particulate matter sources on daily mortality: a case-crossover study of Barcelona, Spain. <i>Environmental Health Perspectives</i> , 2011 , 119, 1781-7	8.4	143
91	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. <i>Atmospheric Environment</i> , 2007 , 41, 913-922	5.3	132
90	A study on the relationship between mass concentrations, chemistry and number size distribution of urban fine aerosols in Milan, Barcelona and London. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2217-2232	6.8	118
89	Size fractionate particulate matter, vehicle traffic, and case-specific daily mortality in Barcelona, Spain. <i>Environmental Science & Technology</i> , 2009 , 43, 4707-14	10.3	112
88	Interpretation of the variability of levels of regional background aerosols in the Western Mediterranean. <i>Science of the Total Environment</i> , 2008 , 407, 527-40	10.2	109
87	Saharan dust, particulate matter and cause-specific mortality: a case-crossover study in Barcelona (Spain). <i>Environment International</i> , 2012 , 48, 150-5	12.9	106
86	Desert Dust Outbreaks in Southern Europe: Contribution to Daily PM ₁₀ Concentrations and Short-Term Associations with Mortality and Hospital Admissions. <i>Environmental Health Perspectives</i> , 2016 , 124, 413-9	8.4	103
85	African dust outbreaks over the western Mediterranean Basin: 11-year characterization of atmospheric circulation patterns and dust source areas. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6759-6775	6.8	100
84	PM _{2.5} chemical composition in five European Mediterranean cities: A 1-year study. <i>Atmospheric Research</i> , 2015 , 155, 102-117	5.4	95
83	Trends of particulate matter (PM ₁₀ and PM _{2.5}) and chemical composition at a regional background site in the Western Mediterranean over the last nine years (2002-2010). <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8341-8357	6.8	91
82	Variations of urban aerosols in the western Mediterranean. <i>Atmospheric Environment</i> , 2008 , 42, 9052-9062	6.2	90
81	Short-term effects of particulate matter on total mortality during Saharan dust outbreaks: a case-crossover analysis in Madrid (Spain). <i>Science of the Total Environment</i> , 2011 , 412-413, 386-9	10.2	86
80	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2917-2931	6.8	84
79	Variations of levels and composition of PM ₁₀ and PM _{2.5} at an insular site in the Western Mediterranean. <i>Atmospheric Research</i> , 2009 , 94, 285-299	5.4	81
78	Short-term effects of particulate matter constituents on daily hospitalizations and mortality in five South-European cities: results from the MED-PARTICLES project. <i>Environment International</i> , 2015 , 75, 151-8	12.9	80
77	Spatial distribution of ultrafine particles in urban settings: A land use regression model. <i>Atmospheric Environment</i> , 2012 , 54, 657-666	5.3	80
76	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
75	Lanthanoid geochemistry of urban atmospheric particulate matter. <i>Environmental Science & Technology</i> , 2008 , 42, 6502-7	10.3	77

74	The regime of intense desert dust episodes in the Mediterranean based on contemporary satellite observations and ground measurements. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 12135-12154	6.8	76
73	Geochemistry of regional background aerosols in the Western Mediterranean. <i>Atmospheric Research</i> , 2009 , 94, 422-435	5.4	76
72	Discriminating the regional and urban contributions in the North-Western Mediterranean: PM levels and composition. <i>Atmospheric Environment</i> , 2010 , 44, 1587-1596	5.3	76
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	Impact of a European directive on ship emissions on air quality in Mediterranean harbours. <i>Atmospheric Environment</i> , 2012 , 61, 661-669	5.3	69
69	Intense winter atmospheric pollution episodes affecting the Western Mediterranean. <i>Science of the Total Environment</i> , 2010 , 408, 1951-9	10.2	67
68	Impact of harbour emissions on ambient PM10 and PM2.5 in Barcelona (Spain): Evidences of secondary aerosol formation within the urban area. <i>Science of the Total Environment</i> , 2016 , 571, 237-50	10.2	67
67	Which specific causes of death are associated with short term exposure to fine and coarse particles in Southern Europe? Results from the MED-PARTICLES project. <i>Environment International</i> , 2014 , 67, 54-61	12.9	66
66	Mediterranean intense desert dust outbreaks and their vertical structure based on remote sensing data. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8609-8642	6.8	64
65	Short-term effects of particulate matter on mortality during forest fires in Southern Europe: results of the MED-PARTICLES Project. <i>Occupational and Environmental Medicine</i> , 2015 , 72, 323-9	2.1	61
64	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
63	Urban aerosol size distributions over the Mediterranean city of Barcelona, NE Spain. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10693-10707	6.8	58
62	African dust contribution to ambient aerosol levels across central Spain: Characterization of long-range transport episodes of desert dust. <i>Atmospheric Research</i> , 2013 , 127, 117-129	5.4	56
61	Natural sources of atmospheric aerosols influencing air quality across Europe. <i>Science of the Total Environment</i> , 2014 , 472, 825-33	10.2	54
60	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees, 1570 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2935-2951	6.8	54
59	Chemical fingerprint and impact of shipping emissions over a western Mediterranean metropolis: primary and aged contributions. <i>Science of the Total Environment</i> , 2013 , 463-464, 497-507	10.2	53
58	Neural network model for the prediction of PM10 daily concentrations in two sites in the Western Mediterranean. <i>Science of the Total Environment</i> , 2013 , 463-464, 875-83	10.2	52
57	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

56	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. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5173-5187	6.8	50
55	Road dust contribution to PM levels [Evaluation of the effectiveness of street washing activities by means of Positive Matrix Factorization. <i>Atmospheric Environment</i> , 2011 , 45, 2193-2201	5.3	46
54	Geochemistry of PM ₁₀ over Europe during the EMEP intensive measurement periods in summer 2012 and winter 2013. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6107-6129	6.8	42
53	The risks of acute exposure to black carbon in Southern Europe: results from the MED-PARTICLES project. <i>Occupational and Environmental Medicine</i> , 2015 , 72, 123-9	2.1	40
52	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
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	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
49	Atmospheric PM and volatile organic compounds released from Mediterranean shrubland wildfires. <i>Atmospheric Environment</i> , 2014 , 89, 85-92	5.3	32
48	PM ₁₀ and PM _{2.5} sources at an insular location in the western Mediterranean by using source apportionment techniques. <i>Science of the Total Environment</i> , 2013 , 456-457, 267-77	10.2	32
47	Organic carbon at a remote site of the western Mediterranean Basin: sources and chemistry during the ChArMEX SOP2 field experiment. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8837-8865	6.8	31
46	Assessing the performance of methods to detect and quantify African dust in airborne particulates. <i>Environmental Science & Technology</i> , 2010 , 44, 8814-20	10.3	31
45	Monitoring of sources and atmospheric processes controlling air quality in an urban Mediterranean environment. <i>Atmospheric Environment</i> , 2010 , 44, 4879-4890	5.3	30
44	Forecasting the northern African dust outbreak towards Europe in April 2011: a model intercomparison. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4967-4986	6.8	29
43	Partitioning of magnetic particles in PM ₁₀ , PM _{2.5} and PM ₁ aerosols in the urban atmosphere of Barcelona (Spain). <i>Environmental Pollution</i> , 2014 , 188, 109-17	9.3	28
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	Particulate matter and gaseous pollutants in the Mediterranean Basin: results from the MED-PARTICLES project. <i>Science of the Total Environment</i> , 2014 , 488-489, 297-315	10.2	25
40	Trends of air pollution in the Western Mediterranean Basin from a 13-year database: A research considering regional, suburban and urban environments in Mallorca (Balearic Islands). <i>Atmospheric Environment</i> , 2015 , 103, 138-146	5.3	23
39	Modelling organic aerosol concentrations and properties during ChArMEX summer campaigns of 2012 and 2013 in the western Mediterranean region. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12509-12531	6.8	22

38	Joint analysis of continental and regional background environments in the western Mediterranean: PM ₁₀ and PM _{2.5} concentrations and composition. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1129-1145	6.8	22
37	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
36	Effects of local and Saharan particles on cardiovascular disease mortality. <i>Epidemiology</i> , 2012 , 23, 768-9	3.1	20
35	Spatial and temporal variations in inhalable CuZnPb aerosols within the Mexico City pollution plume. <i>Journal of Environmental Monitoring</i> , 2008 , 10, 370-8		20
34	Variability of sub-micrometer particle number size distributions and concentrations in the Western Mediterranean regional background. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013 , 65, 19243-33	3.3	19
33	Are Saharan dust intrusions increasing the risk of meningococcal meningitis?. <i>International Journal of Infectious Diseases</i> , 2011 , 15, e503	10.5	19
32	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
31	Intercomparisons of Mobility Size Spectrometers and Condensation Particle Counters in the Frame of the Spanish Atmospheric Observational Aerosol Network. <i>Aerosol Science and Technology</i> , 2015 , 49, 777-785	3.4	17
30	Carbon emissions in Mediterranean shrubland wildfires: An experimental approach. <i>Atmospheric Environment</i> , 2013 , 69, 86-93	5.3	17
29	Spatial extent of new particle formation events over the Mediterranean Basin from multiple ground-based and airborne measurements. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9567-9583	6.8	17
28	Simulation of fine organic aerosols in the western Mediterranean area during the ChArMEx 2013 summer campaign. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7287-7312	6.8	17
27	Sources of PM _{2.5} at an urban-industrial Mediterranean city, Marseille (France): Application of the ME-2 solver to inorganic and organic markers. <i>Atmospheric Research</i> , 2018 , 214, 263-274	5.4	16
26	Primary marine aerosol physical flux and chemical composition during a nutrient enrichment experiment in mesocosms in the Mediterranean Sea. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14645-14660	6.8	16
25	Characterization of a long range transport pollution episode affecting PM in SW Spain. <i>Journal of Environmental Monitoring</i> , 2008 , 10, 1158-71		15
24	Evidence of atmospheric nanoparticle formation from emissions of marine microorganisms. <i>Geophysical Research Letters</i> , 2016 , 43, 6596-6603	4.9	15
23	Aerosol sources in the western Mediterranean during summertime: a model-based approach. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9631-9659	6.8	12
22	Study of the correlation between columnar aerosol burden, suspended matter at ground and chemical components in a background European environment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
21	Chemistry of dry and wet atmospheric deposition over the Balearic Islands, NW Mediterranean: Source apportionment and African dust areas. <i>Science of the Total Environment</i> , 2020 , 747, 141187	10.2	12

20	A simplified approach to the indirect evaluation of the chemical composition of atmospheric aerosols from PM mass concentrations. <i>Atmospheric Environment</i> , 2010 , 44, 5112-5121	5.3	10
19	Levels of outdoor PM2.5, absorbance and sulphur as surrogates for personal exposures among post-myocardial infarction patients in Barcelona, Spain. <i>Atmospheric Environment</i> , 2007 , 41, 1539-1549	5.3	9
18	An evaluation of mass, number concentration, chemical composition and types of particles in a cafeteria before and after the passage of an antismoking law. <i>Particuology</i> , 2013 , 11, 527-532	2.8	8
17	Variability of air pollutants, and PM composition and sources at a regional background site in the Balearic Islands: Review of western Mediterranean phenomenology from a 3-year study. <i>Science of the Total Environment</i> , 2020 , 717, 137177	10.2	6
16	Phenomenology and geographical gradients of atmospheric deposition in southwestern Europe: Results from a multi-site monitoring network. <i>Science of the Total Environment</i> , 2020 , 744, 140745	10.2	6
15	Hydrogeochemical, isotopic and geophysical characterization of saline lake systems in semiarid regions: The Salada de Chiprana Lake, Northeastern Spain. <i>Science of the Total Environment</i> , 2020 , 728, 138848	10.2	5
14	Snow Impurities in the Central Pyrenees: From Their Geochemical and Mineralogical Composition towards Their Impacts on Snow Albedo. <i>Atmosphere</i> , 2020 , 11, 937	2.7	4
13	The case of a southern European glacier which survived Roman and medieval warm periods but is disappearing under recent warming. <i>Cryosphere</i> , 2021 , 15, 1157-1172	5.5	4
12	Influence of hail suppression systems over silver content in the environment in Aragón (Spain). I: Rainfall and soils. <i>Science of the Total Environment</i> , 2021 , 784, 147220	10.2	3
11	Mechanisms of Climate Variability, Air Quality and Impacts of Atmospheric Constituents in the Mediterranean Region. <i>Advances in Global Change Research</i> , 2013 , 119-156	1.2	2
10	African dust influence on ambient PM levels in South-Western Europe (Spain and Portugal): A quantitative approach to support implementation of Air Quality Directives. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009 , 7, 012018	0.3	2
9	Partitioning of the water soluble versus insoluble fraction of trace elements in the city of Santiago, Chile. <i>Atmosfera</i> , 2018 , 31, 373-387	2.5	2
8	Environmental magnetic fingerprinting of anthropogenic and natural atmospheric deposition over southwestern Europe. <i>Atmospheric Environment</i> , 2021 , 261, 118568	5.3	2
7	Modelling organic aerosol concentrations and properties during ChArMEx summer campaigns of 2012 and 2013 in the western Mediterranean region 2017 ,		1
6	Organic carbon at a remote site of the western Mediterranean Basin: composition, sources and chemistry during the ChArMEx SOP2 field experiment 2017 ,		1
5	Microstructural analysis and determination of PM10 emission sources in an industrial Mediterranean city. <i>Open Chemistry</i> , 2014 , 12, 1081-1090	1.6	1
4	A note on particulate matter, total mortality and Saharan dust in Madrid. <i>Science of the Total Environment</i> , 2012 , 441, 290	10.2	1
3	Aerosol sources in the western Mediterranean during summertime: A model-based approach 2018 ,		1

- 2 Increasing atmospheric dust transport towards the western Mediterranean over 1948–2020. *Npj Climate and Atmospheric Science*, **2022**, 5, 8 1
- 1 Reasons for the observed tropospheric ozone weakening over south-western Europe during COVID-19: Strict lockdown versus the new normal.. *Science of the Total Environment*, **2022**, 155162 10.2 0