Jorge Pey

List of Publications by Year
in descending order

107 papers	9,546 citations	28190 55 h-index	39575 94 g-index
123 all docs	123 docs citations	123 times ranked	7699 citing authors

#	Article	IF	Citations
1	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. Atmospheric Environment, 2009, 43, 2770-2780.	1.9	492
2	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. Atmospheric Environment, 2007, 41, 7219-7231.	1.9	396
3	African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. Atmospheric Environment, 2009, 43, 4266-4277.	1.9	375
4	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.	1.9	343
5	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.	1.9	317
6	Coarse Particles From Saharan Dust and Daily Mortality. Epidemiology, 2008, 19, 800-807.	1.2	301
7	Sources and variability of inhalable road dust particles in three European cities. Atmospheric Environment, 2011, 45, 6777-6787.	1.9	294
8	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999â€“2005. Atmospheric Environment, 2008, 42, 3964-3979.	1.9	287
9	Partitioning of major and trace components in PM10â€“PM2.5â€–PM1 at an urban site in Southern Europe. Atmospheric Environment, 2008, 42, 1677-1691.	1.9	243
10	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.	2.7	238
11	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign. Atmospheric Chemistry and Physics, 2008, 8, 111-128.	1.9	215
12	Variability in regional background aerosols within the Mediterranean. Atmospheric Chemistry and Physics, 2009, 9, 4575-4591.	1.9	210
13	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.	1.5	207
14	Associations between Fine and Coarse Particles and Mortality in Mediterranean Cities: Results from the MED-PARTICLES Project. Environmental Health Perspectives, 2013, 121, 932-938.	2.8	193
15	Source apportionment of urban fine and ultra-fine particle number concentration in a Western Mediterranean city. Atmospheric Environment, 2009, 43, 4407-4415.	1.9	189
16	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.	2.8	180
17	A methodology for the quantification of the net African dust load in air quality monitoring networks. Atmospheric Environment, 2007, 41, 5516-5524.	1.9	174
18	The Effects of Particulate Matter Sources on Daily Mortality: A Case-Crossover Study of Barcelona, Spain. Environmental Health Perspectives, 2011, 119, 1781-1787.	2.8	161

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19	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. Atmospheric Environment, 2007, 41, 913-922.	1.9	158
20	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.	2.8	148
21	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.	1.9	138
22	Interpretation of the variability of levels of regional background aerosols in the Western Mediterranean. Science of the Total Environment, 2008, 407, 527-540.	3.9	134
23	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.	1.9	132
24	Size Fractionate Particulate Matter, Vehicle Traffic, and Case-Specific Daily Mortality in Barcelona, Spain. Environmental Science & Technology, 2009, 43, 4707-4714.	4.6	130
25	PM2.5 chemical composition in five European Mediterranean cities: A 1-year study. Atmospheric Research, 2015, 155, 102-117.	1.8	128
26	Saharan dust, particulate matter and cause-specific mortality: A caseâ€“crossover study in Barcelona (Spain). Environment International, 2012, 48, 150-155.	4.8	125
27	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.	1.9	114
28	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. Atmospheric Chemistry and Physics, 2011, 11, 2917-2931.	1.9	104
29	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.	1.9	104
30	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.	1.9	103
31	Variations of urban aerosols in the western Mediterranean. Atmospheric Environment, 2008, 42, 9052-9062.	1.9	102
32	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.	4.8	100
33	Variations of levels and composition of PM10 and PM2.5 at an insular site in the Western Mediterranean. Atmospheric Research, 2009, 94, 285-299.	1.8	96
34	Spatial distribution of ultrafine particles in urban settings: A land use regression model. Atmospheric Environment, 2012, 54, 657-666.	1.9	95
35	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.	3.9	93
36	Geochemistry of regional background aerosols in the Western Mediterranean. Atmospheric Research, 2009, 94, 422-435.	1.8	92

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37	Discriminating the regional and urban contributions in the North-Western Mediterranean: PM levels and composition. Atmospheric Environment, 2010, 44, 1587-1596.	1.9	92
38	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.	3.9	90
39	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. Atmospheric Chemistry and Physics, 2011, 11, 9415-9430.	1.9	89
40	Mediterranean intense desert dust outbreaks and their vertical structure based on remote sensing data. Atmospheric Chemistry and Physics, 2016, 16, 8609-8642.	1.9	85
41	Lanthanoid Geochemistry of Urban Atmospheric Particulate Matter. Environmental Science & Technology, 2008, 42, 6502-6507.	4.6	84
42	Impact of a European directive on ship emissions on air quality in Mediterranean harbours. Atmospheric Environment, 2012, 61, 661-669.	1.9	83
43	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, 323-329.	1.3	81
44	Intense winter atmospheric pollution episodes affecting the Western Mediterranean. Science of the Total Environment, 2010, 408, 1951-1959.	3.9	80
45	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. Environment International, 2014, 67, 54-61.	4.8	80
46	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	80
47	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.	3.9	73
48	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.	6.5	69
49	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.	3.9	69
50	Natural sources of atmospheric aerosols influencing air quality across Europe. Science of the Total Environment, 2014, 472, 825-833.	3.9	68
51	Urban aerosol size distributions over the Mediterranean city of Barcelona, NE Spain. Atmospheric Chemistry and Physics, 2012, 12, 10693-10707.	1.9	67
52	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.	1.8	65
53	African dust and air quality over Spain: Is it only dust that matters?. Science of the Total Environment, 2019, 686, 737-752.	3.9	65
54	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.	1.9	62

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55	Effect of atmospheric mixing layer depth variations on urban air quality and daily mortality during Saharan dust outbreaks. Science of the Total Environment, 2014, 494-495, 283-289.	3.9	61
56	Geochemistry of PM₁₀ over Europe during the EMEP intensive measurement periods in summerÂ2012 and winterÂ2013. Atmospheric Chemistry and Physics, 2016, 16, 6107-6129.	1.9	54
57	Road dust contribution to PM levels â€“ Evaluation of the effectiveness of street washing activities by means of Positive Matrix Factorization. Atmospheric Environment, 2011, 45, 2193-2201.	1.9	51
58	Effects of sources and meteorology on particulate matter in the Western Mediterranean Basin: An overview of the DAURE campaign. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4978-5010.	1.2	49
59	The risks of acute exposure to black carbon in Southern Europe: results from the MED-PARTICLES project. Occupational and Environmental Medicine, 2015, 72, 123-129.	1.3	46
60	Organic carbon at a remote site of the western Mediterranean Basin: sources and chemistry during the ChArMEx SOP2 field experiment. Atmospheric Chemistry and Physics, 2017, 17, 8837-8865.	1.9	45
61	PM10 and PM2.5 sources at an insular location in the western Mediterranean by using source apportionment techniques. Science of the Total Environment, 2013, 456-457, 267-277.	3.9	44
62	Peculiarities in atmospheric particle number and size-resolved speciation in an urban area in the western Mediterranean: Results from the DAURE campaign. Atmospheric Environment, 2011, 45, 5282-5293.	1.9	42
63	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	40
64	Atmospheric PM and volatile organic compounds released from Mediterranean shrubland wildfires. Atmospheric Environment, 2014, 89, 85-92.	1.9	39
65	Partitioning of magnetic particles in PM10, PM2.5 and PM1 aerosols in the urban atmosphere of Barcelona (Spain). Environmental Pollution, 2014, 188, 109-117.	3.7	38
66	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.	1.9	36
67	Monitoring of sources and atmospheric processes controlling air quality in an urban Mediterranean environment. Atmospheric Environment, 2010, 44, 4879-4890.	1.9	34
68	Assessing the Performance of Methods to Detect and Quantify African Dust in Airborne Particulates. Environmental Science & Technology, 2010, 44, 8814-8820.	4.6	34
69	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.	3.9	32
70	Forecasting the northern African dust outbreak towards Europe in April 2011: a model intercomparison. Atmospheric Chemistry and Physics, 2016, 16, 4967-4986.	1.9	32
71	Modelling organic aerosol concentrations and properties during ChArMEx summer campaigns of 2012 and 2013 in the western Mediterranean region. Atmospheric Chemistry and Physics, 2017, 17, 12509-12531.	1.9	29
72	Sources of PM2.5 at an urban-industrial Mediterranean city, Marseille (France): Application of the ME-2 solver to inorganic and organic markers. Atmospheric Research, 2018, 214, 263-274.	1.8	29

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73	Are Saharan dust intrusions increasing the risk of meningococcal meningitis?. International Journal of Infectious Diseases, 2011, 15, e503.	1.5	28
74	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. Atmospheric Chemistry and Physics, 2013, 13, 8991-9019.	1.9	27
75	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). Atmospheric Environment, 2015, 103, 138-146.	1.9	27
76	Simulation of fine organic aerosols in the western Mediterranean area during the ChArMEx 2013 summer campaign. Atmospheric Chemistry and Physics, 2018, 18, 7287-7312.	1.9	27
77	Primary marine aerosol physical flux and chemical composition during a nutrient enrichment experiment in mesocosms in the Mediterranean Sea. Atmospheric Chemistry and Physics, 2017, 17, 14645-14660.	1.9	25
78	Effects of Local and Saharan Particles on Cardiovascular Disease Mortality. Epidemiology, 2012, 23, 768-769.	1.2	24
79	Carbon emissions in Mediterranean shrubland wildfires: An experimental approach. Atmospheric Environment, 2013, 69, 86-93.	1.9	24
80	Spatial extent of new particle formation events over the Mediterranean Basin from multiple ground-based and airborne measurements. Atmospheric Chemistry and Physics, 2017, 17, 9567-9583.	1.9	24
81	Variability of sub-micrometer particle number size distributions and concentrations in the Western Mediterranean regional background. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 19243.	0.8	23
82	Spatial and temporal variations in inhalable CuZnPb aerosols within the Mexico City pollution plume. Journal of Environmental Monitoring, 2008, 10, 370.	2.1	22
83	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.	1.5	21
84	Evidence of atmospheric nanoparticle formation from emissions of marine microorganisms. Geophysical Research Letters, 2016, 43, 6596-6603.	1.5	21
85	Chemistry of dry and wet atmospheric deposition over the Balearic Islands, NW Mediterranean: Source apportionment and African dust areas. Science of the Total Environment, 2020, 747, 141187.	3.9	21
86	Overview of the meteorology and transport patterns during the DAURE field campaign and their impact to PM observations. Atmospheric Environment, 2013, 77, 607-620.	1.9	20
87	Aerosol sources in the western Mediterranean during summertime: a model-based approach. Atmospheric Chemistry and Physics, 2018, 18, 9631-9659.	1.9	18
88	Increasing atmospheric dust transport towards the western Mediterranean over 1948â€“2020. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	17
89	Characterization of a long range transport pollution episode affecting PM in SW Spain. Journal of Environmental Monitoring, 2008, 10, 1158.	2.1	15
90	Study of the correlation between columnar aerosol burden, suspended matter at ground and chemical components in a background European environment. Journal of Geophysical Research, 2012, 117, .	3.3	14

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91	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. Science of the Total Environment, 2020, 717, 137177.	3.9	14
92	Levels of outdoor PM2.5, absorbance and sulphur as surrogates for personal exposures among post-myocardial infarction patients in Barcelona, Spain. Atmospheric Environment, 2007, 41, 1539-1549.	1.9	12
93	The case of a southern European glacier which survived Roman and medieval warm periods but is disappearing under recent warming. Cryosphere, 2021, 15, 1157-1172.	1.5	11
94	A simplified approach to the indirect evaluation of the chemical composition of atmospheric aerosols from PM mass concentrations. Atmospheric Environment, 2010, 44, 5112-5121.	1.9	10
95	An evaluation of mass, number concentration, chemical composition and types of particles in a cafeteria before and after the passage of an antismoking law. Particuology, 2013, 11, 527-532.	2.0	10
96	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.	3.9	10
97	Snow Impurities in the Central Pyrenees: From Their Geochemical and Mineralogical Composition towards Their Impacts on Snow Albedo. Atmosphere, 2020, 11, 937.	1.0	10
98	Hydrogeochemical, isotopic and geophysical characterization of saline lake systems in semiarid regions: The Salada de Chiprana Lake, Northeastern Spain. Science of the Total Environment, 2020, 728, 138848.	3.9	10
99	Environmental magnetic fingerprinting of anthropogenic and natural atmospheric deposition over southwestern Europe. Atmospheric Environment, 2021, 261, 118568.	1.9	6
100	Partitioning of the water soluble versus insoluble fraction of trace elements in the city of Santiago, Chile. Atmosfera, 2018, 31, 373-387.	0.3	5
101	Influence of hail suppression systems over silver content in the environment in AragÃ³n (Spain). I: Rainfall and soils. Science of the Total Environment, 2021, 784, 147220.	3.9	4
102	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, 833, 155162.	3.9	4
103	Mechanisms of Climate Variability, Air Quality and Impacts of Atmospheric Constituents in the Mediterranean Region. Advances in Global Change Research, 2013, , 119-156.	1.6	3
104	Microstuctural analysis and determination of PM10 emission sources in an industrial Mediterranean city. Open Chemistry, 2014, 12, 1081-1090.	1.0	3
105	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.	0.2	2
106	A note on particulate matter, total mortality and Saharan dust in Madrid. Science of the Total Environment, 2012, 441, 290.	3.9	1
107	Geographic and Anthropogenic Controls on Highly Variable Urban Air Pollution Across Spain. Epidemiology, 2006, 17, S157.	1.2	0