

Sergio Rodriguez

List of Publications by Year in descending order

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98
papers

9,487
citations

57631

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131
times ranked

7417
citing authors

#	ARTICLE	IF	CITATIONS
1	A European aerosol phenomenologyâ€”2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2579-2595.	1.9	801
2	A European aerosol phenomenology â€” 3: Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. <i>Atmospheric Environment</i> , 2010, 44, 1308-1320.	1.9	654
3	PM10 and PM2.5 source apportionment in the Barcelona Metropolitan area, Catalonia, Spain. <i>Atmospheric Environment</i> , 2001, 35, 6407-6419.	1.9	563
4	A European aerosol phenomenologyâ€”1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2561-2577.	1.9	494
5	Saharan dust contributions to PM10 and TSP levels in Southern and Eastern Spain. <i>Atmospheric Environment</i> , 2001, 35, 2433-2447.	1.9	482
6	Chemical composition and complex refractive index of Saharan Mineral Dust at Izaña, Tenerife (Spain) derived by electron microscopy. <i>Atmospheric Environment</i> , 2007, 41, 8058-8074.	1.9	376
7	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.	1.9	317
8	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999â€”2005. <i>Atmospheric Environment</i> , 2008, 42, 3964-3979.	1.9	287
9	Characterization and intercomparison of aerosol absorption photometers: result of two intercomparison workshops. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 245-268.	1.2	284
10	Speciation and origin of PM10 and PM2.5 in Spain. <i>Journal of Aerosol Science</i> , 2004, 35, 1151-1172.	1.8	246
11	Monitoring of PM10 and PM2.5 around primary particulate anthropogenic emission sources. <i>Atmospheric Environment</i> , 2001, 35, 845-858.	1.9	220
12	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.	1.9	218
13	Comparative PM10â€”PM2.5 source contribution study at rural, urban and industrial sites during PM episodes in Eastern Spain. <i>Science of the Total Environment</i> , 2004, 328, 95-113.	3.9	216
14	Wet and dry African dust episodes over eastern Spain. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	210
15	Source apportionment of urban fine and ultra-fine particle number concentration in a Western Mediterranean city. <i>Atmospheric Environment</i> , 2009, 43, 4407-4415.	1.9	189
16	Atmospheric Transport and Deposition of Mineral Dust to the Ocean: Implications for Research Needs. <i>Environmental Science & Technology</i> , 2012, 46, 10390-10404.	4.6	187
17	Influence of African dust on the levels of atmospheric particulates in the Canary Islands air quality network. <i>Atmospheric Environment</i> , 2002, 36, 5861-5875.	1.9	180
18	A methodology for the quantification of the net African dust load in air quality monitoring networks. <i>Atmospheric Environment</i> , 2007, 41, 5516-5524.	1.9	174

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19	Levels of particulate matter in rural, urban and industrial sites in Spain. <i>Science of the Total Environment</i> , 2004, 334-335, 359-376.	3.9	159
20	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. <i>Atmospheric Environment</i> , 2007, 41, 913-922.	1.9	158
21	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.	1.9	138
22	Origin of high summer PM10 and TSP concentrations at rural sites in Eastern Spain. <i>Atmospheric Environment</i> , 2002, 36, 3101-3112.	1.9	127
23	Climatology of aerosol radiative properties in the free troposphere. <i>Atmospheric Research</i> , 2011, 102, 365-393.	1.8	121
24	Sources and processes affecting levels and composition of atmospheric aerosol in the western Mediterranean. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 12-1.	3.3	114
25	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.	1.9	104
26	Variations of urban aerosols in the western Mediterranean. <i>Atmospheric Environment</i> , 2008, 42, 9052-9062.	1.9	102
27	Modulation of Saharan dust export by the North African dipole. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7471-7486.	1.9	99
28	Ice nucleating particles in the Saharan Air Layer. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9067-9087.	1.9	93
29	Events Affecting Levels and Seasonal Evolution of Airborne Particulate Matter Concentrations in the Western Mediterranean. <i>Environmental Science & Technology</i> , 2003, 37, 216-222.	4.6	88
30	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. <i>Atmospheric Environment</i> , 2008, 42, 6523-6534.	1.9	86
31	Assessment of atmospheric processes driving ozone variations in the subtropical North Atlantic free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1973-1998.	1.9	78
32	European aerosol phenomenology - 6: scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7877-7911.	1.9	76
33	Ultrafine particles pollution in urban coastal air due to ship emissions. <i>Atmospheric Environment</i> , 2011, 45, 4907-4914.	1.9	74
34	The contributions of "minimum primary emissions" and "new particle formation enhancements" to the particle number concentration in urban air. <i>Journal of Aerosol Science</i> , 2007, 38, 1207-1219.	1.8	73
35	Nucleation and growth of new particles in the rural atmosphere of Northern Italy - relationship to air quality monitoring. <i>Atmospheric Environment</i> , 2005, 39, 6734-6746.	1.9	72
36	Monitoring of atmospheric particulate matter around sources of secondary inorganic aerosol. <i>Atmospheric Environment</i> , 2004, 38, 4979-4992.	1.9	70

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37	Urban aerosol size distributions over the Mediterranean city of Barcelona, NE Spain. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10693-10707.	1.9	67
38	Assessment of airborne particulate levels in Spain in relation to the new EU-directive. <i>Atmospheric Environment</i> , 2001, 35, 43-53.	1.9	65
39	Atmospheric particulate matter and air quality in the Mediterranean: a review. <i>Environmental Chemistry Letters</i> , 2007, 5, 1-7.	8.3	62
40	Ultrafine particle and fine trace metal (As, Cd, Cu, Pb and Zn) pollution episodes induced by industrial emissions in Huelva, SW Spain. <i>Atmospheric Environment</i> , 2012, 61, 507-517.	1.9	61
41	A review of methods for long term in situ characterization of aerosol dust. <i>Aeolian Research</i> , 2012, 6, 55-74.	1.1	61
42	Atmospheric nanoparticle observations in the low free troposphere during upward orographic flows at Izaña Mountain Observatory. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6319-6335.	1.9	57
43	Short-term effects of ultrafine particles on daily mortality by primary vehicle exhaust versus secondary origin in three Spanish cities. <i>Environment International</i> , 2018, 111, 144-151.	4.8	55
44	Atmospheric ice nuclei at the high-altitude observatory Jungfraujoch, Switzerland. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 25014.	0.8	53
45	Urban NH ₃ levels and sources in six major Spanish cities. <i>Chemosphere</i> , 2015, 119, 769-777.	4.2	53
46	Ultrafine particle formation in the inland sea breeze airflow in Southwest Europe. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9615-9630.	1.9	51
47	Geochemical characterization of Cu-smelter emission plumes with impact in an urban area of SW Spain. <i>Atmospheric Research</i> , 2010, 96, 590-601.	1.8	43
48	Accomplishments of the MUSICA project to provide accurate, long-term, global and high-resolution observations of tropospheric {H ₂ O, O ₃ , CO ₂ , CH ₄ , N ₂ O, SO ₂ , NO ₂ , NH ₃ , HCN, H ₂ CO, H ₂ and DMS} pairs – a review. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2845-2875.	1.2	42
49	Using ¹³⁷ Cs and ⁴⁰ K to identify natural Saharan dust contributions to PM ₁₀ concentrations and air quality impairment in the Canary Islands. <i>Atmospheric Environment</i> , 2008, 42, 7034-7042.	1.9	37
50	Levels and chemical composition of PM in a city near a large Cu-smelter in Spain. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1276.	2.1	37
51	The pulsating nature of large-scale Saharan dust transport as a result of interplays between mid-latitude Rossby waves and the North African Dipole Intensity. <i>Atmospheric Environment</i> , 2017, 167, 586-602.	1.9	37
52	Origin of observed high ⁷ Be and mineral dust concentrations in ambient air on the Island of Tenerife. <i>Atmospheric Environment</i> , 2008, 42, 4247-4256.	1.9	34
53	Monitoring of sources and atmospheric processes controlling air quality in an urban Mediterranean environment. <i>Atmospheric Environment</i> , 2010, 44, 4879-4890.	1.9	34
54	Climatology of new particle formation at Izaña mountain GAW observatory in the subtropical North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3865-3881.	1.9	34

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55	Detecting moisture transport pathways to the subtropical North Atlantic free troposphere using paired H ₂ O and δ ¹⁸ O measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4251-4269.	1.9	32
56	An empirical equation to estimate mineral dust concentrations from visibility observations in Northern Africa. <i>Aeolian Research</i> , 2015, 16, 55-68.	1.1	31
57	Identification of topographic features influencing aerosol observations at high altitude stations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12289-12313.	1.9	31
58	A comparative study on the ultrafine particle episodes induced by vehicle exhaust: A crude oil refinery and ship emissions. <i>Atmospheric Research</i> , 2013, 120-121, 43-54.	1.8	29
59	Predicting the mineral composition of dust aerosols: Insights from elemental composition measured at the Izaña Observatory. <i>Geophysical Research Letters</i> , 2016, 43, 10520-10529.	1.5	29
60	Transport pathways of ozone to marine and free-troposphere sites in Tenerife, Canary Islands. <i>Atmospheric Environment</i> , 2004, 38, 4733-4747.	1.9	28
61	Monitoring of ozone in a marine environment in Tenerife (Canary Islands). <i>Atmospheric Environment</i> , 2001, 35, 1829-1841.	1.9	24
62	Empirical validation and proof of added value of MUSICA's tropospheric δ ¹⁸ O remote sensing products. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 483-503.	1.2	24
63	Soluble iron dust export in the high altitude Saharan Air Layer. <i>Atmospheric Environment</i> , 2016, 133, 49-59.	1.9	24
64	Impact of North America on the aerosol composition in the North Atlantic free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7387-7404.	1.9	23
65	Estudio comparativo de las partículas en aire ambiente en pacientes ingresados por insuficiencia cardíaca y síndrome coronario agudo. <i>Revista Española De Cardiología</i> , 2011, 64, 661-666.	0.6	22
66	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.	1.5	21
67	Field comparison of dry deposition samplers for collection of atmospheric mineral dust: results from single-particle characterization. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6647-6665.	1.2	21
68	Impact of Desert Dust Events on the Cardiovascular Disease: A Systematic Review and Meta-Analysis. <i>Journal of Clinical Medicine</i> , 2021, 10, 727.	1.0	21
69	Study on the formation and transport of ozone in relation to the air quality management and vegetation protection in Tenerife (Canary Islands). <i>Chemosphere</i> , 2004, 56, 1157-1167.	4.2	20
70	Speciation of organic aerosols in the Saharan Air Layer and in the free troposphere westerlies. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8939-8958.	1.9	20
71	Temporal and spatial variability of atmospheric particle number size distributions across Spain. <i>Atmospheric Environment</i> , 2018, 190, 146-160.	1.9	20
72	Saharan Dust Events in the Dust Belt -Canary Islands- and the Observed Association with in-Hospital Mortality of Patients with Heart Failure. <i>Journal of Clinical Medicine</i> , 2020, 9, 376.	1.0	17

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73	Rapid changes of dust geochemistry in the Saharan Air Layer linked to sources and meteorology. <i>Atmospheric Environment</i> , 2020, 223, 117186.	1.9	16
74	Impacts of Desert Dust Outbreaks on Air Quality in Urban Areas. <i>Atmosphere</i> , 2020, 11, 23.	1.0	16
75	Black carbon exposure, oxidative stress markers and major adverse cardiovascular events in patients with acute coronary syndromes. <i>International Journal of Cardiology</i> , 2015, 188, 47-49.	0.8	13
76	Anthropogenic Perturbations to the Atmospheric Molybdenum Cycle. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006787.	1.9	12
77	Measurements and simulation of speciated PM _{2.5} in south-west Europe. <i>Atmospheric Environment</i> , 2013, 77, 36-50.	1.9	11
78	Tracking the changes of iron solubility and air pollutants traces as African dust transits the Atlantic in the Saharan dust outbreaks. <i>Atmospheric Environment</i> , 2021, 246, 118092.	1.9	11
79	Black Carbon aerosol measurements and simulation in two cities in south-west Spain. <i>Atmospheric Environment</i> , 2016, 126, 55-65.	1.9	10
80	Assessment of ultrafine particles and noise measurements using fuzzy logic and data mining techniques. <i>Science of the Total Environment</i> , 2015, 512-513, 103-113.	3.9	9
81	Comparative Study of Ambient Air Particles in Patients Hospitalized for Heart Failure and Acute Coronary Syndrome. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2011, 64, 661-666.	0.4	8
82	Impact of Saharan dust exposure on airway inflammation in patients with ischemic heart disease. <i>Translational Research</i> , 2020, 224, 16-25.	2.2	7
83	Origin of PM ₁₀ Pollution Episodes in an Industrialized Mega-City in Central China. <i>Aerosol and Air Quality Research</i> , 2014, 14, 338-346.	0.9	7
84	Short-term effects of air pollution, markers of endothelial activation, and coagulation to predict major adverse cardiovascular events in patients with acute coronary syndrome: insights from AIRACOS study. <i>Biomarkers</i> , 2017, 22, 389-393.	0.9	5
85	The impact of naturally generated particulate matter emanating from desert dust storms and cardiovascular pathophysiology: an alarming worldwide reality. <i>European Heart Journal</i> , 2019, 40, 2375-2376.	1.0	5
86	Estudio y evaluaci3n de la contaminaci3n atmosf3rica por material particulado en Espa±a: necesidades derivadas de la propuesta de la directiva del consejo relativa a part3culas PM₁₀ y PM_{2.5} e implicaciones en la industria cer3mica. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2000, 39, 135-148.	0.9	5
87	Relationship Between Exposure to Sulphur Dioxide Air Pollution, White Cell Inflammatory Biomarkers and Enzymatic Infarct Size in Patients With ST-segment Elevation Acute Coronary Syndromes. <i>European Cardiology Review</i> , 2021, 16, e50.	0.7	5
88	Influencia de las condiciones meteorol3gicas en el ingreso hospitalario en pacientes con s3ndrome coronario agudo con y sin elevaci3n del segmento ST: resultados del estudio AIRACOS. <i>Medicina Intensiva</i> , 2016, 40, 201-207.	0.4	4
89	Air pollution is intimately linked to global climate change: change in Cardiovascular Disease Statistics 2019. <i>European Heart Journal</i> , 2020, 41, 2601-2601.	1.0	4
90	Dust and tropical PM _x aerosols in Cape Verde: Sources, vertical distributions and stratified transport from North Africa. <i>Atmospheric Research</i> , 2021, 263, 105793.	1.8	4

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91	Impact of exposure of emergency patients with acute heart failure to atmospheric Saharan desert dust. <i>Emergencias</i> , 2019, 31, 161-166.	0.6	4
92	Air pollution and heart failure: Relationship with the ejection fraction. <i>World Journal of Cardiology</i> , 2013, 5, 49.	0.5	3
93	Influence of meteorological conditions on hospital admission in patients with acute coronary syndrome with and without ST-segment elevation: Results of the AIRACOS study. <i>Medicina Intensiva (English Edition)</i> , 2016, 40, 201-207.	0.1	2
94	PM10 AND PM2.5 IN A STREET CANYON IN NE SPAIN. <i>Journal of Aerosol Science</i> , 2001, 32, 675-676.	1.8	2
95	Atmospheric Particle Size Distributions in the Spanish Network of Environmental DMAs (REDMAAS). <i>IOP Conference Series: Earth and Environmental Science</i> , 2015, 28, 012001.	0.2	1
96	Impact of Saharan dust on the incidence of acute coronary syndrome. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2021, 74, 321-328.	0.4	1
97	SOURCE APPORTIONMENT OF PM10 IN A RURAL SITE IN NORTHEAST SPAIN. <i>Journal of Aerosol Science</i> , 2001, 32, 789-790.	1.8	0
98	Chapter 10 New Considerations for PM, Black Carbon, and Particle Number Concentration for Air Quality Monitoring Across Different European Cities. , 2016, , 177-218.		0