

# JesÃ³s D De La Rosa

## List of Publications by Year in descending order

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115  
papers

7,255  
citations

41344

49  
h-index

60623

81  
g-index

116  
all docs

116  
docs citations

116  
times ranked

7602  
citing authors

#	ARTICLE	IF	CITATIONS
1	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. Atmospheric Environment, 2007, 41, 7219-7231.	4.1	396
2	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.	4.9	317
3	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999-2005. Atmospheric Environment, 2008, 42, 3964-3979.	4.1	287
4	Speciation and origin of PM10 and PM2.5 in Spain. Journal of Aerosol Science, 2004, 35, 1151-1172.	3.8	246
5	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.	5.3	238
6	Transport of desert dust mixed with North African industrial pollutants in the subtropical Saharan Air Layer. Atmospheric Chemistry and Physics, 2011, 11, 6663-6685.	4.9	218
7	Origin of peraluminous granites and granodiorites, Iberian massif, Spain: an experimental test of granite petrogenesis. Contributions To Mineralogy and Petrology, 1999, 135, 255-276.	3.1	191
8	Rayleigh fractionation of heavy rare earths and yttrium during metamorphic garnet growth. Geology, 2002, 30, 159.	4.4	184
9	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.	6.0	180
10	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. Science of the Total Environment, 2010, 408, 4569-4579.	8.0	163
11	Levels of particulate matter in rural, urban and industrial sites in Spain. Science of the Total Environment, 2004, 334-335, 359-376.	8.0	159
12	Desert Dust Outbreaks in Southern Europe: Contribution to Daily PM $<sub>10</sub>$ Concentrations and Short-Term Associations with Mortality and Hospital Admissions. Environmental Health Perspectives, 2016, 124, 413-419.	6.0	148
13	Source apportionment analysis of atmospheric particulates in an industrialised urban site in southwestern Spain. Atmospheric Environment, 2002, 36, 3113-3125.	4.1	147
14	H-type (hybrid) granitoids: a proposed revision of the granite-type classification and nomenclature. Earth-Science Reviews, 1991, 31, 237-253.	9.1	135
15	Variations in atmospheric PM trace metal content in Spanish towns: Illustrating the chemical complexity of the inorganic urban aerosol cocktail. Atmospheric Environment, 2006, 40, 6791-6803.	4.1	126
16	Generation of Tonalitic and Dioritic Magmas by Coupled Partial Melting of Gabbroic and Metasedimentary Rocks within the Deep Crust of the Famatinian Magmatic Arc, Argentina. Journal of Petrology, 2009, 50, 841-873.	2.8	116
17	Trends of road dust emissions contributions on ambient air particulate levels at rural, urban and industrial sites in southern Spain. Atmospheric Chemistry and Physics, 2014, 14, 3533-3544.	4.9	115
18	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.	4.9	104

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19	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, 151-158.	10.0	100
20	Distribution of rare earth elements in an alluvial aquifer affected by acid mine drainage: the Guadamar aquifer (SW Spain). <i>Environmental Pollution</i> , 2005, 135, 53-64.	7.5	97
21	Contribution of mine wastes to atmospheric metal deposition in the surrounding area of an abandoned heavily polluted mining district (Rio Tinto mines, Spain). <i>Science of the Total Environment</i> , 2013, 449, 363-372.	8.0	95
22	Trace elements in microplastics in Cartagena: A hotspot for plastic pollution at the Caribbean. <i>Marine Pollution Bulletin</i> , 2019, 139, 402-411.	5.0	92
23	Arsenic speciation of atmospheric particulate matter (PM10) in an industrialised urban site in southwestern Spain. <i>Chemosphere</i> , 2007, 66, 1485-1493.	8.2	91
24	The strongest desert dust intrusion mixed with smoke over the Iberian Peninsula registered with Sun photometry. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	91
25	Physicochemical characterization and sources of the thoracic fraction of road dust in a Latin American megacity. <i>Science of the Total Environment</i> , 2019, 652, 434-446.	8.0	88
26	Significance of MORB-derived Amphibolites from the Aracena Metamorphic Belt, Southwest Spain. <i>Journal of Petrology</i> , 1996, 37, 235-260.	2.8	81
27	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, 323-329.	2.8	81
28	The Appinite-Migmatite Complex of Sanabria, NW Iberian Massif, Spain. <i>Journal of Petrology</i> , 2003, 44, 1309-1344.	2.8	80
29	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.	10.0	80
30	Lessons from the COVID-19 air pollution decrease in Spain: Now what?. <i>Science of the Total Environment</i> , 2021, 779, 146380.	8.0	80
31	Lower Carboniferous post-orogenic granites in central-eastern Sierra de Velasco, Sierras Pampeanas, Argentina: U-Pb monazite geochronology, geochemistry and Sr-Nd isotopes. <i>International Journal of Earth Sciences</i> , 2009, 98, 1001-1025.	1.8	78
32	Identification and Chemical Characterization of Industrial Particulate Matter Sources in Southwest Spain. <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 993-1006.	1.9	76
33	The 2.40Ga Ringvassøy mafic dykes, West Troms Basement Complex, Norway: The concluding act of early Palaeoproterozoic continental breakup. <i>Precambrian Research</i> , 2006, 150, 183-200.	2.7	72
34	Residence and redistribution of REE, Y, Zr, Th and U during granulite-facies metamorphism: behaviour of accessory and major phases in peraluminous granulites of central Spain. <i>Chemical Geology</i> , 2003, 200, 293-323.	3.3	70
35	Global sand and dust storms in 2008: Observation and HYSPLIT model verification. <i>Atmospheric Environment</i> , 2011, 45, 6368-6381.	4.1	67
36	Size distribution and concentrations of heavy metals in atmospheric aerosols originating from industrial emissions as predicted by the HYSPLIT model. <i>Atmospheric Environment</i> , 2013, 71, 234-244.	4.1	67

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37	Arsenic speciation study of PM <sub>2.5</sub> in an urban area near a copper smelter. <i>Atmospheric Environment</i> , 2008, 42, 6487-6495.	4.1	66
38	Modeling and evaluation of urban pollution events of atmospheric heavy metals from a large Cu-smelter. <i>Science of the Total Environment</i> , 2016, 539, 17-25.	8.0	65
39	Chemical composition and source apportionment of PM <sub>10</sub> at an urban background site in a high-altitude Latin American megacity (Bogota, Colombia). <i>Environmental Pollution</i> , 2018, 233, 142-155.	7.5	64
40	Geology and petrology of a deep crustal zone from the Famatinian paleo-arc, Sierras de Valle Fertil and La Huerta, San Juan, Argentina. <i>Journal of South American Earth Sciences</i> , 2009, 27, 258-279.	1.4	63
41	Atmospheric particulate matter and air quality in the Mediterranean: a review. <i>Environmental Chemistry Letters</i> , 2007, 5, 1-7.	16.2	62
42	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.	4.1	61
43	Magma mixing in the subvolcanic environment: petrology of the Gerena interaction zone near Seville, Spain. <i>Contributions To Mineralogy and Petrology</i> , 1990, 106, 9-26.	3.1	59
44	Age constraints to the relationships between magmatism, metamorphism and tectonism in the Aracena metamorphic belt, southern Spain. <i>International Journal of Earth Sciences</i> , 1999, 88, 26-37.	1.8	57
45	Geochemistry and origin of PM <sub>10</sub> in the Huelva region, Southwestern Spain. <i>Environmental Research</i> , 2007, 103, 305-316.	7.5	56
46	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.	10.0	55
47	Hazardous trace elements in thoracic fraction of airborne particulate matter: Assessment of temporal variations, sources, and health risks in a megacity. <i>Science of the Total Environment</i> , 2020, 710, 136344.	8.0	55
48	Microgranular enclaves as indicators of hybridization processes in granitoid rocks, Hercynian Belt, Spain. <i>Geological Journal</i> , 1990, 25, 391-404.	1.3	51
49	Ultrafine particle formation in the inland sea breeze airflow in Southwest Europe. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9615-9630.	4.9	51
50	Characterization and origin of EC and OC particulate matter near the Doñana National Park (SW) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	7.5	50
51	Mobility and speciation of rare earth elements in acid minesoils and geochemical implications for river waters in the southwestern Iberian margin. <i>Geoderma</i> , 2009, 149, 393-401.	5.1	50
52	Crustal melting in the lower parts of island arcs: an example from the Bremanger Granitoid Complex, west Norwegian Caledonides. <i>Contributions To Mineralogy and Petrology</i> , 2002, 143, 316-335.	3.1	47
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, 123-129.	2.8	46
54	Environmental tracers for elucidating the weathering process in a phosphogypsum disposal site: Implications for restoration. <i>Journal of Hydrology</i> , 2015, 529, 1313-1323.	5.4	45

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55	A study of inherited zircons in granitoid rocks from the South Portuguese and Ossa-Morena Zones, Iberian Massif: support for the exotic origin of the South Portuguese Zone. <i>Tectonophysics</i> , 2002, 352, 245-256.	2.2	44
56	Size distribution and chemical composition of metalliferous stack emissions in the San Roque petroleum refinery complex, southern Spain. <i>Journal of Hazardous Materials</i> , 2011, 190, 713-722.	12.4	44
57	Geochemical characterization of Cu-smelter emission plumes with impact in an urban area of SW Spain. <i>Atmospheric Research</i> , 2010, 96, 590-601.	4.1	43
58	High concentrations of heavy metals in PM from ceramic factories of Southern Spain. <i>Atmospheric Research</i> , 2010, 96, 633-644.	4.1	43
59	Chemical and Microbiological Characterization of Atmospheric Particulate Matter during an Intense African Dust Event in Southern Spain. <i>Environmental Science &amp; Technology</i> , 2013, 47, 3630-3638.	10.0	43
60	Using PM10 geochemical maps for defining the origin of atmospheric pollution in Andalusia (Southern) Tj ETQq0 0 0 rgBT /Overlock 10	4.1	40
61	Geochemical anomalies of toxic elements and arsenic speciation in airborne particles from Cu mining and smelting activities: Influence on air quality. <i>Journal of Hazardous Materials</i> , 2015, 291, 18-27.	12.4	39
62	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
63	2005-2014 trends of PM10 source contributions in an industrialized area of southern Spain. <i>Environmental Pollution</i> , 2018, 236, 570-579.	7.5	35
64	Modeling and surface observations of arsenic dispersion from a large Cu-smelter in southwestern Europe. <i>Atmospheric Environment</i> , 2012, 49, 114-122.	4.1	34
65	Daily and hourly chemical impact of springtime transboundary aerosols on Japanese air quality. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1411-1424.	4.9	34
66	Size distribution and chemical composition of particulate matter stack emissions in and around a copper smelter. <i>Atmospheric Environment</i> , 2014, 98, 271-282.	4.1	33
67	Environmental risks associated with trace elements in sediments from Cartagena Bay, an industrialized site at the Caribbean. <i>Chemosphere</i> , 2020, 242, 125173.	8.2	33
68	Columnar aerosol optical properties during "El Arenosillo 2004 summer campaign". <i>Atmospheric Environment</i> , 2008, 42, 2643-2653.	4.1	32
69	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.	8.0	32
70	Trace elements in sediments and fish from Atrato River: an ecosystem with legal rights impacted by gold mining at the Colombian Pacific. <i>Environmental Pollution</i> , 2020, 256, 113290.	7.5	31
71	Heavy metal deposition fluxes affecting an Atlantic coastal area in the southwest of Spain. <i>Atmospheric Environment</i> , 2013, 77, 509-517.	4.1	30
72	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.	8.2	30

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73	Chemical and toxicological characterization of sediments along a Colombian shoreline impacted by coal export terminals. <i>Chemosphere</i> , 2015, 138, 837-846.	8.2	29
74	Multistage crystallization of tonalitic enclaves in granitoid rocks (Hercynian belt, Spain): implications for magma mixing. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1991, 80, 109-120.	1.3	28
75	Impact of abandoned mine waste on atmospheric respirable particulate matter in the historic mining district of Rio Tinto (Iberian Pyrite Belt). <i>Environmental Research</i> , 2011, 111, 1018-1023.	7.5	28
76	Volatile phase fluxed anatexis of metasediments during late Caledonian ophiolite obduction: evidence from the Sognefjorden Granitic Complex, west Norway. <i>Journal of the Geological Society</i> , 2000, 157, 1199-1213.	2.1	27
77	Health implications of the distribution of arsenic species in airborne particulate matter. <i>Journal of Inorganic Biochemistry</i> , 2012, 108, 112-114.	3.5	25
78	Modeling PM10 Originating from Dust Intrusions in the Southern Iberian Peninsula Using HYSPLIT. <i>Weather and Forecasting</i> , 2011, 26, 236-242.	1.4	23
79	Heavy metal mobility assessment in sediments from the Odiel River (Iberian Pyritic Belt) using sequential extraction. <i>Environmental Earth Sciences</i> , 2010, 61, 1493-1503.	2.7	22
80	Characteristics and temporal variations of organic and elemental carbon aerosols in a high altitude, tropical Latin American megacity. <i>Atmospheric Research</i> , 2018, 210, 110-122.	4.1	22
81	Physico-chemical characterisation of atmospheric aerosols in a rural area affected by the aznalcollar toxic spill, south-west Spain during the soil reclamation activities. <i>Science of the Total Environment</i> , 1999, 242, 89-104.	8.0	21
82	Unstable flow, magma mixing and magma-rock deformation in a deep-seated conduit: the Gil-Márquez Complex, south-west Spain. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1995, 84, 359.	1.3	21
83	Triple-junction migration during Paleozoic plate convergence: the Aracena metamorphic belt, Hercynian massif, Spain. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996, 85, 180-185.	1.3	19
84	Air quality trends in an industrialised area of SW Spain. <i>Journal of Cleaner Production</i> , 2018, 186, 465-474.	9.3	19
85	The potential impacts of climate change on hydropower generation in Mid Wales. <i>Hydrology Research</i> , 2013, 44, 495-505.	2.7	17
86	Application of lead stable isotopes to the Guadiamar Aquifer study after the mine tailings spill in Aznalcollar (SW Spain). <i>Environmental Geology</i> , 2005, 47, 197-204.	1.2	15
87	Characterization of a long range transport pollution episode affecting PM in SW Spain. <i>Journal of Environmental Monitoring</i> , 2008, 10, 1158.	2.1	15
88	Mineralogy of atmospheric dust impacting the Rio Tinto mining area (Spain) during episodes of high metal deposition. <i>Mineralogical Magazine</i> , 2013, 77, 2793-2810.	1.4	14
89	Potential of hazardous waste encapsulation in concrete with coal fly ash and bivalve shells. <i>Journal of Cleaner Production</i> , 2018, 185, 870-881.	9.3	14
90	Hydrogen fluoride concentrations in ambient air of an urban area based on the emissions of a major phosphogypsum deposit (SW, Europe). <i>Science of the Total Environment</i> , 2020, 714, 136891.	8.0	14

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91	Petrologic and geochemical constraints on the origin of Astaneh pluton, Zagros orogenic belt, Iran. <i>Journal of Asian Earth Sciences</i> , 2010, 39, 81-96.	2.3	13
92	Geochemical anomalies of household dust in an industrialized city (Huelva, SW Spain). <i>Science of the Total Environment</i> , 2017, 587-588, 473-481.	8.0	13
93	Increased industry contribution and atmospheric heavy metals from economic recovery in Spain. <i>Journal of Cleaner Production</i> , 2020, 246, 119024.	9.3	13
94	2009–2017 trends of PM10 in the legendary Riotinto mining district of SW Spain. <i>Atmospheric Research</i> , 2020, 238, 104878.	4.1	12
95	Measurements and simulation of speciated PM2.5 in south-west Europe. <i>Atmospheric Environment</i> , 2013, 77, 36-50.	4.1	11
96	Trends and sources vs air mass origins in a major city in South-western Europe: Implications for air quality management. <i>Science of the Total Environment</i> , 2016, 553, 305-315.	8.0	11
97	The geochemical evolution of brines from phosphogypsum deposits in Huelva (SW Spain) and its environmental implications. <i>Science of the Total Environment</i> , 2020, 700, 134444.	8.0	11
98	Source contribution and origin of PM10 and arsenic in a complex industrial region (Huelva, SW Spain). <i>Environmental Pollution</i> , 2021, 274, 116268.	7.5	11
99	Triple-junction migration during Paleozoic plate convergence: the Aracena metamorphic belt, Hercynian massif, Spain. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996, 85, 180.	1.3	11
100	Black Carbon aerosol measurements and simulation in two cities in south-west Spain. <i>Atmospheric Environment</i> , 2016, 126, 55-65.	4.1	10
101	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.	8.0	9
102	Characterization of biomass burning from olive grove areas: A major source of organic aerosol in PM10 of Southwest Europe. <i>Atmospheric Research</i> , 2018, 199, 1-13.	4.1	9
103	Geochemistry and source contribution of fugitive phosphogypsum particles in Huelva, (SW Spain). <i>Atmospheric Research</i> , 2019, 230, 104650.	4.1	9
104	Genesis of aluminous and intermediate granulites: A case study in the eastern Sierras Pampeanas, Argentina. <i>Lithos</i> , 2006, 89, 66-88.	1.4	8
105	Embryonic exposure to an aqueous coal dust extract results in gene expression alterations associated with the development and function of connective tissue and the hematological system, immunological and inflammatory disease, and cancer in zebrafish. <i>Metallomics</i> , 2018, 10, 463-473.	2.4	8
106	Imposex in <i>Stramonita haemastoma</i> from coastal sites of Cartagena, Colombia. <i>Brazilian Journal of Biology</i> , 2018, 78, 548-555.	0.9	8
107	Physicochemical assessment of atmospheric particulate matter emissions during open-pit mining operations in a massive sulphide ore exploitation. <i>Atmospheric Pollution Research</i> , 2022, 13, 101391.	3.8	8
108	Implications for air quality and the impact of financial and economic crisis in South Spain: Geochemical evolution of atmospheric aerosol in the ceramic region of Bailén. <i>Atmospheric Environment</i> , 2014, 98, 519-529.	4.1	7

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109	Nomarski study of zoned plagioclases from granitoids of the Seville Range batholith, SW Spain. Petrogenetic implications. <i>European Journal of Mineralogy</i> , 1994, 6, 647-656.	1.3	7
110	Unstable flow, magma mixing and magma-rock deformation in a deep-seated conduit: the Gil-Muñoz Complex, south-west Spain. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1995, 84, 359.	1.3	6
111	Applying statistical tools systematically to determine industrial emission levels associated with the best available techniques. <i>Journal of Cleaner Production</i> , 2016, 112, 4226-4236.	9.3	6
112	Long term geochemical variation of brines derived from a major phosphogypsum pond of SW Europe. <i>Journal of Environmental Management</i> , 2020, 254, 109832.	7.8	6
113	Atypical peri-Gondwanan granodiorite-tonalite magmatism from Southern Iberia. Origin of magmas and implications. <i>Lithos</i> , 2020, 372-373, 105684.	1.4	6
114	Multi-elemental composition and toxicity of bottom sediments from Panama Canal watershed. <i>Ocean and Coastal Management</i> , 2021, 204, 105459.	4.4	6
115	Caracterización petrográfica y geoquímica y condiciones de deformación del plutón San Cristóbal, Sierra de Velasco (La Rioja, Argentina). <i>Estudios Geológicos</i> , 2010, 66, 157-169.	0.2	2