

# Jane M Santos

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

1,105  
citations

394286

19  
h-index

477173

29  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in analytical techniques applied to particulate matter characterization: A critical review of fundamentals and applications. <i>Chemosphere</i> , 2018, 199, 546-568.	4.2	61
2	Modelling of odour dispersion around a pig farm building complex using AERMOD and CALPUFF. Comparison with wind tunnel results. <i>Building and Environment</i> , 2012, 56, 8-20.	3.0	59
3	Numerical simulation of the impact of liquid droplets on porous surfaces. <i>Journal of Computational Physics</i> , 2004, 198, 747-770.	1.9	53
4	Parametric study of liquid droplets impinging on porous surfaces. <i>Applied Mathematical Modelling</i> , 2008, 32, 341-361.	2.2	53
5	Numerical simulation of flow and dispersion around an isolated cubical building: The effect of the atmospheric stratification. <i>Atmospheric Environment</i> , 2009, 43, 5484-5492.	1.9	53
6	Source apportionment of settleable particles in an impacted urban and industrialized region in Brazil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 22026-22039.	2.7	48
7	Air quality status and trends over large cities in South America. <i>Environmental Science and Policy</i> , 2020, 114, 422-435.	2.4	45
8	Generalized Additive Models with Principal Component Analysis: An Application to Time Series of Respiratory Disease and Air Pollution Data. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 453-480.	0.5	41
9	An experimental determination of the H <sub>2</sub> S overall mass transfer coefficient from quiescent surfaces at wastewater treatment plants. <i>Atmospheric Environment</i> , 2012, 60, 18-24.	1.9	38
10	Modeling and forecasting daily average PM <sub>10</sub> concentrations by a seasonal long-memory model with volatility. <i>Environmental Modelling and Software</i> , 2014, 51, 286-295.	1.9	32
11	A critical review on liquid-gas mass transfer models for estimating gaseous emissions from passive liquid surfaces in wastewater treatment plants. <i>Water Research</i> , 2018, 130, 388-406.	5.3	30
12	A field experiment on turbulent concentration fluctuations of an atmospheric tracer gas in the vicinity of a complex-shaped building. <i>Atmospheric Environment</i> , 2005, 39, 4999-5012.	1.9	25
13	The impact of urban block typology on pollutant dispersion. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 210, 104524.	1.7	25
14	Mathematical modelling of hydrogen sulphide emission and removal in aerobic biofilters comprising chemical oxidation. <i>Water Research</i> , 2009, 43, 3355-3364.	5.3	24
15	Principal components and generalized linear modeling in the correlation between hospital admissions and air pollution. <i>Revista De Saude Publica</i> , 2014, 48, 451-458.	0.7	24
16	Association between the concentration of fine particles in the atmosphere and acute respiratory diseases in children. <i>Revista De Saude Publica</i> , 2017, 51, 3.	0.7	24
17	Use of inorganic and organic markers associated with their directionality for the apportionment of highly correlated sources of particulate matter. <i>Science of the Total Environment</i> , 2019, 651, 1332-1343.	3.9	24
18	Evaluation of weather research and forecasting model parameterizations under sea-breeze conditions in a North Sea coastal environment. <i>Journal of Meteorological Research</i> , 2016, 30, 998-1018.	0.9	22

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19	Association between the incidence of acute respiratory diseases in children and ambient concentrations of SO <sub>2</sub> , PM <sub>10</sub> and chemical elements in fine particles. <i>Environmental Research</i> , 2020, 188, 109619.	3.7	22
20	Experimental investigation of averaging time effects on building influenced atmospheric dispersion under different meteorological stability conditions. <i>Building and Environment</i> , 2009, 44, 1295-1305.	3.0	20
21	Study of the Thermal Internal Boundary Layer in Sea Breeze Conditions Using Different Parameterizations: Application of the WRF Model in the Greater Vitória Region. <i>Revista Brasileira De Meteorologia</i> , 2016, 31, 593-609.	0.2	20
22	Influence of urban form on air quality: The combined effect of block typology and urban planning indices on city breathability. <i>Science of the Total Environment</i> , 2022, 814, 152670.	3.9	20
23	Development of a fluctuating plume model for odour dispersion around buildings. <i>Atmospheric Environment</i> , 2014, 89, 148-157.	1.9	19
24	Volatile organic compounds speciation and their influence on ozone formation potential in an industrialized urban area in Brazil. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2133-2148.	1.2	17
25	Dynamic flux chamber measurements of hydrogen sulfide emission rate from a quiescent surface – A computational evaluation. <i>Chemosphere</i> , 2016, 146, 426-434.	4.2	17
26	Experimental investigation of outdoor and indoor mean concentrations and concentration fluctuations of pollutants. <i>Atmospheric Environment</i> , 2011, 45, 6534-6545.	1.9	16
27	Characterization of the indoor particles and their sources in an Antarctic research station. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 167.	1.3	14
28	Resonant Synchrotron X-ray Diffraction determines markers for iron-rich atmospheric particulate matter in urban region. <i>Chemosphere</i> , 2018, 212, 418-428.	4.2	14
29	Impact assessment of odours emitted by a wastewater treatment plant. <i>Water Science and Technology</i> , 2012, 66, 2223-2228.	1.2	13
30	Mass transfer inside a flux hood for the sampling of gaseous emissions from liquid surfaces – Experimental assessment and emission rate rescaling. <i>Atmospheric Environment</i> , 2018, 179, 227-238.	1.9	13
31	A new methodology to derive settleable particulate matter guidelines to assist policy-makers on reducing public nuisance. <i>Atmospheric Environment</i> , 2018, 182, 242-251.	1.9	13
32	MRI investigation of the evaporation of embedded liquid droplets from porous surfaces under different drying regimes. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 951-961.	2.5	12
33	Effects of non-erodible particles on aeolian erosion: Wind-tunnel simulations of a sand oblong storage pile. <i>Atmospheric Environment</i> , 2013, 79, 672-680.	1.9	11
34	Uncommon chemical species in PM <sub>2.5</sub> and PM <sub>10</sub> and its potential use as industrial and vehicular markers for source apportionment studies. <i>Chemosphere</i> , 2020, 240, 124953.	4.2	11
35	Experimental surface flow visualization and numerical investigation of flow structure around an oblong stockpile. <i>Environmental Fluid Mechanics</i> , 2012, 12, 533-553.	0.7	10
36	Aeolian erosion of storage piles yards: contribution of the surrounding areas. <i>Environmental Fluid Mechanics</i> , 2014, 14, 51-67.	0.7	10

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37	Numerical modelling of aeolian erosion over a surface with non-uniformly distributed roughness elements. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 156-166.	1.2	10
38	Assessing particle dry deposition in an urban environment by using dispersion models. <i>Atmospheric Pollution Research</i> , 2020, 11, 1-10.	1.8	10
39	Use of multivariate time series techniques to estimate the impact of particulate matter on the perceived annoyance. <i>Atmospheric Environment</i> , 2020, 222, 117080.	1.9	10
40	Modelling hydrogen sulphide emission in a WWTP with UASB reactor followed by aerobic biofilters. <i>Water Science and Technology</i> , 2006, 54, 173-180.	1.2	9
41	Using Large-Eddy Simulation and Wind-Tunnel Data to Investigate Peak-to-Mean Concentration Ratios in an Urban Environment. <i>Boundary-Layer Meteorology</i> , 2019, 172, 333-350.	1.2	9
42	Exposure and dose assessment of school children to air pollutants in a tropical coastal-urban area. <i>Science of the Total Environment</i> , 2022, 803, 149747.	3.9	9
43	Mortality risks due to long-term ambient sulphur dioxide exposure: large variability of relative risk in the literature. <i>Environmental Science and Pollution Research</i> , 2020, 27, 35908-35917.	2.7	9
44	The mineralogical composition of coarse and fine particulate material, their fate, and sources in an industrialized region of southeastern Brazil. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 88.	1.3	9
45	Wind friction parametrisation used in emission models for wastewater treatment plants: A critical review. <i>Water Research</i> , 2017, 124, 49-66.	5.3	8
46	Parâmetros bioquímicos foliares das espécies <i>Licania tomentosa</i> (Benth.) e <i>Bauhinia forficata</i> (Link.) para avaliação da qualidade do ar. <i>Química Nova</i> , 2008, 31, 1925-1932.	0.3	7
47	Influence of the fetch parameter on results from empirical correlations for estimating odorous emissions at passive liquid surfaces. <i>Water Science and Technology</i> , 2016, 74, 2384-2391.	1.2	5
48	Sensitivity analysis of the WATER9 model: emissions of odorous compounds from passive liquid surfaces present in wastewater treatment plants. <i>Water Science and Technology</i> , 2018, 2017, 903-912.	1.2	5
49	Effects of flux chamber configuration on the sampling of odorous gases emissions. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 918-930.	2.5	5
50	Influence of land use on the performance of the WRF model in a humid tropical climate. <i>Theoretical and Applied Climatology</i> , 2020, 141, 201-214.	1.3	5
51	Volatilization of hydrogen sulfide from a quiescent surface. <i>Water Science and Technology</i> , 2012, 66, 1991-1996.	1.2	4
52	A review on the role of dispersion and receptor models in asthma research. <i>Environmental Pollution</i> , 2021, 287, 117529.	3.7	4
53	Modelling atmospheric emissions from wastewater treatment plants: Implications of land-to-water roughness change. <i>Science of the Total Environment</i> , 2021, 792, 148330.	3.9	4
54	The role of receptor models as tools for air quality management: a case study of an industrialized urban region. <i>Environmental Science and Pollution Research</i> , 2020, 27, 35918-35929.	2.7	4

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55	An experimental and numerical study of the aeolian erosion of isolated and successive piles. <i>Environmental Fluid Mechanics</i> , 2020, 20, 123-144.	0.7	3
56	Deconstruction of annoyance due to air pollution by multiple correspondence analyses. <i>Environmental Science and Pollution Research</i> , 2021, 28, 47904-47920.	2.7	3
57	Urban air quality, climate, and pollution: from measurement to modeling applications. <i>Environmental Science and Pollution Research</i> , 2020, 27, 35873-35874.	2.7	3
58	Comparison of methods for assessment of children exposure to air pollution: dispersion model, ambient monitoring, and personal samplers. <i>Air Quality, Atmosphere and Health</i> , 0, , 1.	1.5	3
59	Indoor air quality in an Antarctic Research Station: Fungi, particles and aldehyde concentrations associated with building materials and architectural design. <i>Indoor and Built Environment</i> , 2018, 27, 1322-1340.	1.5	2
60	Impact of human activities on the concentration of indoor air particles in an antarctic research station. <i>Ambiente Constru�do</i> , 2018, 18, 463-477.	0.2	2
61	Influence of non-erodible particles with multimodal size distribution on aeolian erosion of storage piles of granular materials. <i>Environmental Fluid Mechanics</i> , 2019, 19, 583-599.	0.7	2
62	Experimental and numerical investigation of building effects on wind erosion of a granular material stockpile. <i>Environmental Science and Pollution Research</i> , 2020, 27, 36013-36026.	2.7	2
63	Numerical modelling of odour dispersion around a cubical obstacle using large eddy simulation. <i>Water Science and Technology</i> , 2012, 66, 1549-1557.	1.2	1
64	Kinetic models of hydrogen sulphide formation in anaerobic bioreactors. <i>Environmental Technology Reviews</i> , 2013, 2, 45-54.	2.1	1
65	Analysis of the interface configuration and flow characteristics in tanks in a multiphase liquid-gas system using numerical simulation. <i>Journal of Turbulence</i> , 2017, 18, 688-716.	0.5	1
66	Large-eddy simulations of turbulent flow structures near a quiescent liquid-gas interface for gaseous compounds emissions studies. <i>Applied Mathematical Modelling</i> , 2017, 42, 29-42.	2.2	1
67	Comparative analysis of dust emissions: isolated stockpile vs two nearby stockpiles. <i>WIT Transactions on Ecology and the Environment</i> , 2012, , .	0.0	1
68	Comparison of mass transfer parameters inside a USEPA flux hood for two VOCs. <i>Water Science and Technology</i> , 2020, 81, 1445-1451.	1.2	0