

Jean Martins

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,780
citations

172386

29
h-index

189801

50
g-index

81
all docs

81
docs citations

81
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	First visualisation of bacterial biofilms in 3D porous media with neutron microtomography without contrast agent. <i>Journal of Microscopy</i> , 2022, 285, 20-28.	0.8	2
2	A device to simulate contaminant transfer and surface and subsurface flow through intact soil monoliths. <i>Vadose Zone Journal</i> , 2022, 21, .	1.3	0
3	Wastewater reuse in irrigation: short-term effect on soil carbon and nitrogen stocks in Brazilian semi-arid region. <i>Revista Ambiente & Água</i> , 2021, 16, 1.	0.1	2
4	Small-Scale Variability in Bacterial Community Structure in Different Soil Types. <i>Microbial Ecology</i> , 2021, 82, 470-483.	1.4	5
5	Low mobility of CuO and TiO ₂ nanoparticles in agricultural soils of contrasting texture and organic matter content. <i>Science of the Total Environment</i> , 2021, 783, 146952.	3.9	11
6	Sulfamethoxazole biodegradation and impacts on soil microbial communities in a Bolivian arid high altitude catchment. <i>Chemosphere</i> , 2021, 284, 131335.	4.2	5
7	High levels of primary biogenic organic aerosols are driven by only a few plant-associated microbial taxa. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5609-5628.	1.9	16
8	Distribution of AC Electric Field-Induced Transmembrane Voltage in <i>Escherichia coli</i> Cell Wall Layers. <i>Bioelectromagnetics</i> , 2020, 41, 279-288.	0.9	1
9	Characterization and comparison of groundwater quality and redox conditions in the Arakawa Lowland and Musashino Upland, southern Kanto Plain of the Tokyo Metropolitan area, Japan. <i>Science of the Total Environment</i> , 2020, 722, 137783.	3.9	9
10	Variability of the Atmospheric PM ₁₀ Microbiome in Three Climatic Regions of France. <i>Frontiers in Microbiology</i> , 2020, 11, 576750.	1.5	6
11	Arabitol, mannitol, and glucose as tracers of primary biogenic organic aerosol: the influence of environmental factors on ambient air concentrations and spatial distribution over France. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11013-11030.	1.9	35
12	Assessment of the Sulfamethoxazole mobility in natural soils and of the risk of contamination of water resources at the catchment scale. <i>Environment International</i> , 2019, 130, 104905.	4.8	29
13	Polyols and glucose particulate species as tracers of primary biogenic organic aerosols at 28 French sites. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3357-3374.	1.9	53
14	Seasonal Variations and Chemical Predictors of Oxidative Potential (OP) of Particulate Matter (PM), for Seven Urban French Sites. <i>Atmosphere</i> , 2019, 10, 698.	1.0	31
15	Environmental fate and ecotoxicological risk of the antibiotic sulfamethoxazole across the Katari catchment (Bolivian Altiplano): Application of the GREAT-ER model. <i>Science of the Total Environment</i> , 2018, 622-623, 1046-1055.	3.9	26
16	OZCAR: The French Network of Critical Zone Observatories. <i>Vadose Zone Journal</i> , 2018, 17, 1-24.	1.3	126
17	Negative Effects of Copper Oxide Nanoparticles on Carbon and Nitrogen Cycle Microbial Activities in Contrasting Agricultural Soils and in Presence of Plants. <i>Frontiers in Microbiology</i> , 2018, 9, 3102.	1.5	89
18	Soil aggregates: a scale to investigate the densities of metal and proton reactive sites of organic matter and clay phases in soil. <i>European Journal of Soil Science</i> , 2018, 69, 953-961.	1.8	5

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19	Comparison between five acellular oxidative potential measurement assays performed with detailed chemistry on PM ₁₀ samples from the city of Chamonix (France). Atmospheric Chemistry and Physics, 2018, 18, 7863-7875.	1.9	109
20	Toxicity of TiO ₂ nanoparticles on soil nitrification at environmentally relevant concentrations: Lack of classical dose-response relationships. Nanotoxicology, 2017, 11, 247-255.	1.6	59
21	How Uncontrolled Urban Expansion Increases the Contamination of the Titicaca Lake Basin (El Alto, La Paz, Bolivia). Environmental Science & Technology, 2017, 51, 11431-11440.	1.1	49
22	Theoretical evidence of maximum intracellular currents versus frequency in an <i>Escherichia coli</i> cell submitted to AC voltage. Bioelectromagnetics, 2017, 38, 213-219.	0.9	1
23	The unexpected role of bioaerosols in the Oxidative Potential of PM. Scientific Reports, 2017, 7, 10978.	1.6	70
24	The importance of simulated lung fluid (SLF) extractions for a more relevant evaluation of the oxidative potential of particulate matter. Scientific Reports, 2017, 7, 11617.	1.6	72
25	Antibiotic pollution in the Katari subcatchment of the Titicaca Lake: Major transformation products and occurrence of resistance genes. Science of the Total Environment, 2017, 576, 671-682.	3.9	69
26	Titanium dioxide nanoparticles strongly impact soil microbial function by affecting archaeal nitrifiers. Scientific Reports, 2016, 6, 33643.	1.6	114
27	Combined Study of Titanium Dioxide Nanoparticle Transport and Toxicity on Microbial Nitrifying Communities under Single and Repeated Exposures in Soil Columns. Environmental Science & Technology, 2016, 50, 10693-10699.	4.6	25
28	Development and evaluation of an experimental protocol for 3-D visualization and characterization of the structure of bacterial biofilms in porous media using laboratory X-ray tomography. Biofouling, 2016, 32, 1235-1244.	0.8	4
29	Isotopic effects of nitrate photochemistry in snow: a field study at Dome C, Antarctica. Atmospheric Chemistry and Physics, 2015, 15, 11243-11256.	1.9	32
30	Combining microscopy with spectroscopic and chemical methods for tracing the origin of atmospheric fallouts from mining sites. Journal of Hazardous Materials, 2015, 300, 538-545.	6.5	4
31	Customization of an optical probe device and validation of a signal processing procedure to study gas-liquid-solid flows. Application to a three-phase internal-loop gas-lift Bioreactor. Chemical Engineering Science, 2015, 138, 814-826.	1.9	6
32	Influence of soil properties on the toxicity of TiO ₂ nanoparticles on carbon mineralization and bacterial abundance. Journal of Hazardous Materials, 2015, 283, 529-535.	6.5	108
33	Application of synchrotron X-ray microtomography for visualizing bacterial biofilms 3D microstructure in porous media. Biotechnology and Bioengineering, 2014, 111, 1265-1271.	1.7	19
34	Microscale evidence for a high decrease of soil bacterial density and diversity by cropping. Agronomy for Sustainable Development, 2014, 34, 831-840.	2.2	41
35	Comparison of three labeled silica nanoparticles used as tracers in transport experiments in porous media. Part I: Syntheses and characterizations. Environmental Pollution, 2014, 184, 605-612.	3.7	13
36	Comparison of three labeled silica nanoparticles used as tracers in transport experiments in porous media. Part II: Transport experiments and modeling. Environmental Pollution, 2014, 184, 613-619.	3.7	15

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37	Impacts of Anthropogenic Activities on the Contamination of a Sub Watershed of Lake Titicaca. Are Antibiotics a Concern in the Bolivian Altiplano?. <i>Procedia Earth and Planetary Science</i> , 2014, 10, 370-375.	0.6	26
38	Speciation study in the sulfamethoxazole-copper-pH-soil system: Implications for retention prediction. <i>Science of the Total Environment</i> , 2014, 481, 266-273.	3.9	39
39	Comparison of chemical washing and physical cell-disruption approaches to assess the surface adsorption and internalization of cadmium by <i>Cupriavidus metallidurans</i> CH34. <i>Journal of Hazardous Materials</i> , 2014, 273, 231-238.	6.5	14
40	Effect of long term organic amendments and vegetation of vineyard soils on the microscale distribution and biogeochemistry of copper. <i>Science of the Total Environment</i> , 2014, 466-467, 681-689.	3.9	30
41	Size- and concentration-dependent deposition of fluorescent silica colloids in saturated sand columns: transport experiments and modeling. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 1590.	1.7	14
42	Role of macropore flow in the transport of <i>Escherichia coli</i> cells in undisturbed cores of a brown leached soil. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 347-356.	1.7	20
43	Xanthan exopolysaccharide: Acid-base reactivity related to structure and conformation. A model for understanding the reactivity of degraded and colloidal soil organic matter. <i>Chemical Geology</i> , 2013, 359, 150-158.	1.4	11
44	Influence of hydrodynamics on the growth kinetics of glass-adhering <i>Pseudomonas putida</i> cells through a parallel plate flow chamber. <i>Biomicrofluidics</i> , 2013, 7, 54105.	1.2	6
45	Air-snow transfer of nitrate on the East Antarctic Plateau - Part 1: Isotopic evidence for a photolytically driven dynamic equilibrium in summer. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6403-6419.	1.9	103
46	Spatial and diurnal variability in reactive nitrogen oxide chemistry as reflected in the isotopic composition of atmospheric nitrate: Results from the CalNex 2010 field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,567.	1.2	33
47	Lixiviação de naftaleno em solos urbanos da região metropolitana do Recife, PE. <i>Revista Brasileira De Ciencia Do Solo</i> , 2013, 37, 1415-1422.	0.5	3
48	SIMULAÇÃO DO TRANSPORTE DE PACLOBUTRAZOL EM SOLOS DE UMA ESTAÇÃO EXPERIMENTAL EM JUAZEIRO (BA). <i>Revista Águas Subterrâneas</i> , 2013, 27, .	0.1	0
49	An isotopic view on the connection between photolytic emissions of NO _x from the Arctic snowpack and its oxidation by reactive halogens. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
50	Biodegradação de paclobutrazol por <i>Pseudomonas</i> spp. em sistemas de solo saturados. <i>Química Nova</i> , 2012, 35, 1090-1096.	0.3	5
51	Modelagem da cinética de biodegradação de paclobutrazol em dois solos do semiárido do nordeste brasileiro. <i>Química Nova</i> , 2012, 35, 77-81.	0.3	2
52	Searching for life in extreme environments relevant to Jovian Europa: Lessons from subglacial ice studies at Lake Vostok (East Antarctica). <i>Advances in Space Research</i> , 2011, 48, 697-701.	1.2	11
53	Investigation of hydrodynamic/biomass growth coupling in a pilot scale granular bioreactor at low pore Reynolds number. <i>Chemical Engineering Science</i> , 2011, 66, 1765-1782.	1.9	16
54	Effect of pine bark and compost on the biological denitrification process of non-hazardous landfill leachate: Focus on the microbiology. <i>Journal of Hazardous Materials</i> , 2010, 181, 1163-1169.	6.5	37

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55	Comprehensive isotopic composition of atmospheric nitrate in the Atlantic Ocean boundary layer from 65°S to 79°N. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	156
56	Photolysis imprint in the nitrate stable isotope signal in snow and atmosphere of East Antarctica and implications for reactive nitrogen cycling. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8681-8696.	1.9	157
57	Tannin impacts on microbial diversity and the functioning of alpine soils: a multidisciplinary approach. <i>Environmental Microbiology</i> , 2008, 10, 799-809.	1.8	33
58	Copper Dynamics and Impact on Microbial Communities in Soils of Variable Organic Status. <i>Environmental Science & Technology</i> , 2008, 42, 2819-2825.	4.6	67
59	Tracing the Origin and Fate of NO _x in the Arctic Atmosphere Using Stable Isotopes in Nitrate. <i>Science</i> , 2008, 322, 730-732.	6.0	189
60	Transporte do paclobutrazol em colunas de solos. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008, 32, 2165-2175.	0.5	11
61	Reactivity of the Plant Growth Regulator Paclobutrazol (Cultar) with Two Tropical Soils of the Northeast Semiarid Region of Brazil. <i>Journal of Environmental Quality</i> , 2008, 37, 90-97.	1.0	7
62	Small-scale Spatial Variability of Atrazine and Dinoseb Adsorption Parameters in an Alluvial Soil. <i>Journal of Environmental Quality</i> , 2008, 37, 1929-1936.	1.0	4
63	Effect of cultivation and experimental conditions on the surface reactivity of the metal-resistant bacteria <i>Cupriavidus metallidurans</i> CH34 to protons, cadmium and zinc. <i>Chemical Geology</i> , 2007, 236, 266-280.	1.4	42
64	Fingerprinting and diversity of bacterial copA genes in response to soil types, soil organic status and copper contamination. <i>FEMS Microbiology Ecology</i> , 2007, 61, 424-437.	1.3	55
65	Zinc Sorption to Three Gram-Negative Bacteria: Combined Titration, Modeling, and EXAFS Study. <i>Environmental Science & Technology</i> , 2006, 40, 1806-1813.	4.6	195
66	Facilitated transport of heavy metals by bacterial colloids in sand columns. <i>European Physical Journal Special Topics</i> , 2003, 107, 593-596.	0.2	8
67	Degradation in soil and water and ecotoxicity of rimsulfuron and its metabolites. <i>Chemosphere</i> , 2001, 45, 515-522.	4.2	25
68	Transport of rimsulfuron and its metabolites in soil columns. <i>Chemosphere</i> , 1999, 38, 601-616.	4.2	31
69	Sorption and degradation of four nitroaromatic herbicides in mono and multi-solute saturated/unsaturated soil batch systems. <i>Journal of Contaminant Hydrology</i> , 1998, 33, 187-210.	1.6	61
70	Comparison of supercritical fluid extraction (SFE), Soxhlet and shaking methods for pendimethalin extraction from soils: effect of soil properties and water content. <i>Journal of Contaminant Hydrology</i> , 1998, 33, 171-185.	1.6	26
71	Development of an Optical Fiber Fluorescence Setup for in situ PAHs Detection in Porous Media. Application to Pyranine Transport in Sand Columns. <i>International Journal of Environmental Analytical Chemistry</i> , 1997, 68, 239-256.	1.8	4
72	Microbial response to repeated applications of low concentrations of pentachlorophenol in an alfisol under pasture. <i>Chemosphere</i> , 1997, 35, 1637-1650.	4.2	19

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73	Distribution of microorganisms and fate of xenobiotic molecules in unsaturated soil environments. Science of the Total Environment, 1993, 136, 121-133.	3.9	22