

Jean Martins

List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	OZCAR: The French Network of Critical Zone Observatories. <i>Vadose Zone Journal</i> , 2018, 17, 1-24.	1.3	126
6	Titanium dioxide nanoparticles strongly impact soil microbial function by affecting archaeal nitrifiers. <i>Scientific Reports</i> , 2016, 6, 33643.	1.6	114
7	Comparison between five acellular oxidative potential measurement assays performed with detailed chemistry on PM ₁₀ samples from the city of Chamonix (France). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7863-7875.	1.9	109
8	Influence of soil properties on the toxicity of TiO ₂ nanoparticles on carbon mineralization and bacterial abundance. <i>Journal of Hazardous Materials</i> , 2015, 283, 529-535.	6.5	108
9	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
10	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
11	The importance of simulated lung fluid (SLF) extractions for a more relevant evaluation of the oxidative potential of particulate matter. <i>Scientific Reports</i> , 2017, 7, 11617.	1.6	72
12	The unexpected role of bioaerosols in the Oxidative Potential of PM. <i>Scientific Reports</i> , 2017, 7, 10978.	1.6	70
13	Antibiotic pollution in the Katari subcatchment of the Titicaca Lake: Major transformation products and occurrence of resistance genes. <i>Science of the Total Environment</i> , 2017, 576, 671-682.	3.9	69
14	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
15	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
16	Toxicity of TiO ₂ nanoparticles on soil nitrification at environmentally relevant concentrations: Lack of classical dose response relationships. <i>Nanotoxicology</i> , 2017, 11, 247-255.	1.6	59
17	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
18	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

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19	How Uncontrolled Urban Expansion Increases the Contamination of the Titicaca Lake Basin (El Alto, La) Tj ETQq1 1 0,784314 rgBT /Ove	1.1	49
20	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
21	Microscale evidence for a high decrease of soil bacterial density and diversity by cropping. <i>Agronomy for Sustainable Development</i> , 2014, 34, 831-840.	2.2	41
22	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
23	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
24	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
25	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
26	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
27	Isotopic effects of nitrate photochemistry in snow: a field study at Dome C, Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11243-11256.	1.9	32
28	Transport of rimsulfuron and its metabolites in soil columns. <i>Chemosphere</i> , 1999, 38, 601-616.	4.2	31
29	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
30	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
31	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
32	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
33	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
34	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
35	Degradation in soil and water and ecotoxicity of rimsulfuron and its metabolites. <i>Chemosphere</i> , 2001, 45, 515-522.	4.2	25
36	Combined Study of Titanium Dioxide Nanoparticle Transport and Toxicity on Microbial Nitrifying Communities under Single and Repeated Exposures in Soil Columns. <i>Environmental Science & Technology</i> , 2016, 50, 10693-10699.	4.6	25

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37	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
38	Distribution of microorganisms and fate of xenobiotic molecules in unsaturated soil environments. <i>Science of the Total Environment</i> , 1993, 136, 121-133.	3.9	22
39	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
40	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
41	Application of synchrotron X-ray microtomography for visualizing bacterial biofilms 3D microstructure in porous media. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1265-1271.	1.7	19
42	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
43	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
44	Comparison of three labeled silica nanoparticles used as tracers in transport experiments in porous media. Part II: Transport experiments and modeling. <i>Environmental Pollution</i> , 2014, 184, 613-619.	3.7	15
45	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
46	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
47	Comparison of three labeled silica nanoparticles used as tracers in transport experiments in porous media. Part I: Syntheses and characterizations. <i>Environmental Pollution</i> , 2014, 184, 605-612.	3.7	13
48	Transporte do paclobutrazol em colunas de solos. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008, 32, 2165-2175.	0.5	11
49	Searching for life in extreme environments relevant to Jovian's Europa: Lessons from subglacial ice studies at Lake Vostok (East Antarctica). <i>Advances in Space Research</i> , 2011, 48, 697-701.	1.2	11
50	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
51	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
52	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
53	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
54	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

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55	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
56	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. <i>Chemical Engineering Science</i> , 2015, 138, 814-826.	1.9	6
57	Variability of the Atmospheric PM10 Microbiome in Three Climatic Regions of France. <i>Frontiers in Microbiology</i> , 2020, 11, 576750.	1.5	6
58	Biodegradação de paclobutrazol por <i>Pseudomonas</i> spp. em sistemas de solo saturados. <i>Quimica Nova</i> , 2012, 35, 1090-1096.	0.3	5
59	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
60	Small-Scale Variability in Bacterial Community Structure in Different Soil Types. <i>Microbial Ecology</i> , 2021, 82, 470-483.	1.4	5
61	Sulfamethoxazole biodegradation and impacts on soil microbial communities in a Bolivian arid high altitude catchment. <i>Chemosphere</i> , 2021, 284, 131335.	4.2	5
62	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
63	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
64	Combining microscopy with spectroscopic and chemical methods for tracing the origin of atmospheric fallouts from mining sites. <i>Journal of Hazardous Materials</i> , 2015, 300, 538-545.	6.5	4
65	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. <i>Biofouling</i> , 2016, 32, 1235-1244.	0.8	4
66	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
67	Modelagem da cinética de biodegradação de paclobutrazol em dois solos do semiárido do nordeste brasileiro. <i>Quimica Nova</i> , 2012, 35, 77-81.	0.3	2
68	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
69	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
70	Theoretical evidence of maximum intracellular currents versus frequency in an <i>Escherichia coli</i> cell submitted to AC voltage. <i>Bioelectromagnetics</i> , 2017, 38, 213-219.	0.9	1
71	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
72	SIMULAÇÃO DO TRANSPORTE DE PACLOBUTRAZOL EM SOLOS DE UMA ESTAÇÃO EXPERIMENTAL EM JUAZEIRO (BA). <i>Revista Águas Subterrâneas</i> , 2013, 27, .	0.1	0

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73	A device to simulate contaminant transfer and surface and subsurface flow through intact soil monoliths. Vadose Zone Journal, 2022, 21, .	1.3	0