

Xavier Domene

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,595
citations

279778

23
h-index

302107

39
g-index

49
all docs

49
docs citations

49
times ranked

2084
citing authors

#	ARTICLE	IF	CITATIONS
1	Medium-term effects of corn biochar addition on soil biota activities and functions in a temperate soil cropped to corn. <i>Soil Biology and Biochemistry</i> , 2014, 72, 152-162.	8.8	141
2	Comparison of biochars derived from different types of feedstock and their potential for heavy metal removal in multiple-metal solutions. <i>Scientific Reports</i> , 2019, 9, 9869.	3.3	112
3	Biochars provoke diverse soil mesofauna reproductive responses in laboratory bioassays. <i>European Journal of Soil Biology</i> , 2014, 60, 104-111.	3.2	90
4	Ecotoxicological characterization of biochars: Role of feedstock and pyrolysis temperature. <i>Science of the Total Environment</i> , 2015, 512-513, 552-561.	8.0	82
5	Ecotoxicological assessment of organic wastes using the soil collembolan <i>Folsomia candida</i> . <i>Applied Soil Ecology</i> , 2007, 35, 461-472.	4.3	71
6	Toxic effects of digested, composted and thermally-dried sewage sludge on three plants. <i>Bioresource Technology</i> , 2008, 99, 7168-7175.	9.6	71
7	Short-term mesofauna responses to soil additions of corn stover biochar and the role of microbial biomass. <i>Applied Soil Ecology</i> , 2015, 89, 10-17.	4.3	69
8	Unintended effects of biochars on short-term plant growth in a calcareous soil. <i>Plant and Soil</i> , 2014, 385, 87-105.	3.7	68
9	Gasifier biochar effects on nutrient availability, organic matter mineralization, and soil fauna activity in a multi-year Mediterranean trial. <i>Agriculture, Ecosystems and Environment</i> , 2016, 215, 30-39.	5.3	55
10	Ecological risk assessment of organic waste amendments using the species sensitivity distribution from a soil organisms test battery. <i>Environmental Pollution</i> , 2008, 155, 227-236.	7.5	54
11	BIOCHARS IN SOILS: TOWARDS THE REQUIRED LEVEL OF SCIENTIFIC UNDERSTANDING. <i>Journal of Environmental Engineering and Landscape Management</i> , 2016, 25, 192-207.	1.0	48
12	Role of soil properties in sewage sludge toxicity to soil collembolans. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1982-1990.	8.8	47
13	Influence of soil properties on the performance of <i>Folsomia candida</i> : Implications for its use in soil ecotoxicology testing. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1497-1505.	4.3	41
14	Improving ecological risk assessment in the Mediterranean area: Selection of reference soils and evaluating the influence of soil properties on avoidance and reproduction of two oligochaete species. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1050-1058.	4.3	40
15	Biochar application and summer temperatures reduce N ₂ O and enhance CH ₄ emissions in a Mediterranean agroecosystem: Role of biologically-induced anoxic microsites. <i>Science of the Total Environment</i> , 2019, 685, 1075-1086.	8.0	39
16	Phytotoxic effects of sewage sludge extracts on the germination of three plant species. <i>Ecotoxicology</i> , 2008, 17, 834-844.	2.4	37
17	Integrated ecological risk assessment of pesticides in tropical ecosystems: A case study with carbofuran in Brazil. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 437-445.	4.3	34
18	Soil restoration using compost-like-outputs and digestates from non-source-separated urban waste as organic amendments: Limitations and opportunities. <i>Journal of Environmental Management</i> , 2020, 255, 109909.	7.8	32

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19	Comparing current chemical methods to assess biochar organic carbon in a Mediterranean agricultural soil amended with two different biochars. <i>Science of the Total Environment</i> , 2017, 598, 604-618.	8.0	30
20	Ecotoxicological and Fertilizing Effects of Dewatered, Composted and Dry Sewage Sludge on Soil Mesofauna: A TME Experiment. <i>Ecotoxicology</i> , 2005, 14, 545-557.	2.4	29
21	Comparison of solid-phase and eluate assays to gauge the ecotoxicological risk of organic wastes on soil organisms. <i>Environmental Pollution</i> , 2008, 151, 549-558.	7.5	28
22	Soil pollution by nonylphenol and nonylphenol ethoxylates and their effects to plants and invertebrates. <i>Journal of Soils and Sediments</i> , 2009, 9, 555-567.	3.0	28
23	Toxicity of phenmedipham and carbendazim to <i>Enchytraeus crypticus</i> and <i>Eisenia andrei</i> (Oligochaeta) in Mediterranean soils. <i>Journal of Soils and Sediments</i> , 2014, 14, 584-599.	3.0	28
24	Soil microarthropod community testing: A new approach to increase the ecological relevance of effect data for pesticide risk assessment. <i>Applied Soil Ecology</i> , 2014, 83, 200-209.	4.3	23
25	Linking plant litter microbial diversity to microhabitat conditions, environmental gradients and litter mass loss: Insights from a European study using standard litter bags. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107778.	8.8	22
26	Soil bioassays as tools for sludge compost quality assessment. <i>Waste Management</i> , 2011, 31, 512-522.	7.4	21
27	Microbial diversity in Chinese temperate steppe: unveiling the most influential environmental drivers. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	21
28	KEYLINK: towards a more integrative soil representation for inclusion in ecosystem scale models. I. review and model concept. <i>PeerJ</i> , 2020, 8, e9750.	2.0	21
29	Biochar application as a win-win strategy to mitigate soil nitrate pollution without compromising crop yields: a case study in a Mediterranean calcareous soil. <i>Journal of Soils and Sediments</i> , 2020, 20, 220-233.	3.0	19
30	Biochar addition rate determines contrasting shifts in soil nematode trophic groups in outdoor mesocosms: An appraisal of underlying mechanisms. <i>Applied Soil Ecology</i> , 2021, 158, 103788.	4.3	19
31	Mid-term effects on ecosystem services of quarry restoration with Technosols under Mediterranean conditions: 10-year impacts on soil organic carbon and vegetation development. <i>Restoration Ecology</i> , 2020, 28, 960-970.	2.9	15
32	Effects of nonylphenol on a soil community using microcosms. <i>Journal of Soils and Sediments</i> , 2010, 10, 556-567.	3.0	14
33	Sea spray influences water chemical composition of Mediterranean semi-natural springs. <i>Catena</i> , 2019, 173, 414-423.	5.0	14
34	Nitrate pollution reduces bryophyte diversity in Mediterranean springs. <i>Science of the Total Environment</i> , 2020, 705, 135823.	8.0	14
35	FEEDING INHIBITION IN THE SOIL COLLEMBOLAN FOLSOMIA CANDIDA AS AN ENDPOINT FOR THE ESTIMATION OF ORGANIC WASTE ECOTOXICITY. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1538.	4.3	13
36	Bioassays prove the suitability of mining debris mixed with sewage sludge for land reclamation purposes. <i>Journal of Soils and Sediments</i> , 2010, 10, 30-44.	3.0	13

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37	A Critical Analysis of Meso- and Macrofauna Effects Following Biochar Supplementation. , 2016, , 268-292.		13
38	Fresh biochar application provokes a reduction of nitrate which is unexplained by conventional mechanisms. Science of the Total Environment, 2021, 755, 142430.	8.0	13
39	Applying a GLM-based approach to model the influence of soil properties on the toxicity of phenmedipham to Folsomia candida. Journal of Soils and Sediments, 2012, 12, 888-899.	3.0	12
40	Widespread tropical agrowastes as novel feedstocks for biochar production: characterization and priority environmental uses. Biomass Conversion and Biorefinery, 2021, 11, 1775-1785.	4.6	11
41	Impact of fertilization with pig slurry on the isotopic composition of nitrate retained in soil and leached to groundwater in agricultural areas. Applied Geochemistry, 2021, 125, 104832.	3.0	10
42	Nonylphenol causes shifts in microbial communities and nitrogen mineralization in soil microcosms. Ecotoxicology and Environmental Safety, 2019, 181, 395-403.	6.0	9
43	One-year monitoring of nitrogen forms after the application of various types of biochar on different soils. Geoderma, 2021, 402, 115178.	5.1	9
44	Long-term effects of gasification biochar application on soil functions in a Mediterranean agroecosystem: Higher addition rates sequester more carbon but pose a risk to soil faunal communities. Science of the Total Environment, 2021, 801, 149580.	8.0	5
45	Amendments with pyrolyzed agrowastes change bromacil and diuron's sorption and persistence in a tropical soil without modifying their environmental risk. Science of the Total Environment, 2021, 772, 145515.	8.0	4
46	Investigating the Use of Multi-Gaussian Nonlinear Regressions to Separate Collembolan Size Classes for Soil Quality Assessment. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	2
47	Chemical and isotopic characterization of nitrate retained and leached from soil after manure fertilization-by lysimeter experiments. E3S Web of Conferences, 2019, 98, 12016.	0.5	2
48	Determination of EC 50 Values for Cu, Zn, and Cr on Microorganisms Activity in a Mediterranean Sandy Soil. Clean - Soil, Air, Water, 2019, 47, 1700617.	1.1	2