Josep Maria AlcaÃ±iz

List of Publications by Year
in descending order

61 papers	1,911 citations	218677 26 h-index	265206 42 g-index
61 all docs	61 docs citations	61 times ranked	2244 citing authors

#	Article	IF	Citations
1	Are soilâ€“water functions affected by biochar application?. Geoderma, 2015, 249-250, 1-11.	5.1	113
2	Biochars provoke diverse soil mesofauna reproductive responses inÂlaboratory bioassays. European Journal of Soil Biology, 2014, 60, 104-111.	3.2	90
3	Runoff and losses by erosion in soils amended with sewage sludge. Land Degradation and Development, 2003, 14, 563-573.	3.9	72
4	Ecotoxicological assessment of organic wastes using the soil collembolan Folsomia candida. Applied Soil Ecology, 2007, 35, 461-472.	4.3	71
5	Toxic effects of digested, composted and thermally-dried sewage sludge on three plants. Bioresource Technology, 2008, 99, 7168-7175.	9.6	71
6	CHARACTERIZATION OF ORGANIC MATTER FROM TWO DIFFERENT SOILS BY PYROLYSIS-GAS CHROMATOGRAPHY AND ISOELECTRIC FOCUSING. Soil Science, 1986, 142, 83-90.	0.9	70
7	Unintended effects of biochars on short-term plant growth in a calcareous soil. Plant and Soil, 2014, 385, 87-105.	3.7	68
8	Monitoring opencast mine restorations using Unmanned Aerial System (UAS) imagery. Science of the Total Environment, 2019, 657, 1602-1614.	8.0	67
9	Differences in aggregate stability due to various sewage sludge treatments on a Mediterranean calcareous soil. Agriculture, Ecosystems and Environment, 2008, 125, 48-56.	5.3	59
10	Gasifier biochar effects on nutrient availability, organic matter mineralization, and soil fauna activity in a multi-year Mediterranean trial. Agriculture, Ecosystems and Environment, 2016, 215, 30-39.	5.3	55
11	Effects of Sewage Sludge on Plant Community Composition in Restored Limestone Quarries. Restoration Ecology, 2004, 12, 290-296.	2.9	54
12	Ecological risk assessment of organic waste amendments using the species sensitivity distribution from a soil organisms test battery. Environmental Pollution, 2008, 155, 227-236.	7.5	54
13	Contribution of sewage sludge to erosion control in the rehabilitation of limestone quarries. Land Degradation and Development, 1996, 7, 69-76.	3.9	53
14	Influence of water availability in the distributions of branched glycerol dialkyl glycerol tetraether in soils of the Iberian Peninsula. Biogeosciences, 2014, 11, 2571-2581.	3.3	53
15	Bioaccumulation of heavy metals in Dactylis glomerata L. growing in a calcareous soil amended with sewage sludge. Bioresource Technology, 2006, 97, 545-552.	9.6	52
16	Differences on nitrogen availability in a soil amended with fresh, composted and thermally-dried sewage sludge. Bioresource Technology, 2008, 99, 252-259.	9.6	49
17	Effects of sewage sludge amendment on soil aggregation. Land Degradation and Development, 1999, 10, 3-12.	3.9	48
18	Role of soil properties in sewage sludge toxicity to soil collembolans. Soil Biology and Biochemistry, 2010, 42, 1982-1990.	8.8	47

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19	Carbon dioxide efflux and pCO2 in soils of threeQuercus ilex montane forests. Biogeochemistry, 1995, 30, 191-215.	3.5	43
20	Influence of soil properties on the performance ofFolsomia candida: Implications for its use in soil ecotoxicology testing. Environmental Toxicology and Chemistry, 2011, 30, 1497-1505.	4.3	41
21	Phytotoxic effects of sewage sludge extracts on the germination of three plant species. Ecotoxicology, 2008, 17, 834-844.	2.4	37
22	Regional patterns of fire recurrence effects on calcareous soils of Mediterranean Pinus halepensis communities. Forest Ecology and Management, 2006, 221, 313-318.	3.2	36
23	Soil restoration using compost-like-outputs and digestates from non-source-separated urban waste as organic amendments: Limitations and opportunities. Journal of Environmental Management, 2020, 255, 109909.	7.8	32
24	Belowground biota responses to maize biochar addition to the soil of a Mediterranean vineyard. Science of the Total Environment, 2019, 660, 1522-1532.	8.0	31
25	Modification of soil porosity after application of sewage sludge. Soil and Tillage Research, 1999, 49, 337-345.	5.6	30
26	Comparing current chemical methods to assess biochar organic carbon in a Mediterranean agricultural soil amended with two different biochars. Science of the Total Environment, 2017, 598, 604-618.	8.0	30
27	Comparison of solid-phase and eluate assays to gauge the ecotoxicological risk of organic wastes on soil organisms. Environmental Pollution, 2008, 151, 549-558.	7.5	28
28	Soil pollution by nonylphenol and nonylphenol ethoxylates and their effects to plants and invertebrates. Journal of Soils and Sediments, 2009, 9, 555-567.	3.0	28
29	Fractal analysis of soil water hysteresis as influenced by sewage sludge application. Geoderma, 2006, 134, 386-401.	5.1	25
30	Nitrogen losses in runoff waters from a loamy soil treated with sewage sludge. Agriculture, Ecosystems and Environment, 2006, 117, 49-56.	5.3	25
31	Sewage Sludge Application on Soil: Effects on Two Earthworm Species. Water, Air, and Soil Pollution, 2001, 129, 319-332.	2.4	24
32	Sewage sludge as an organic amendment for quarry restoration: Effects on soil and vegetation. Land Degradation and Development, 2018, 29, 2568-2574.	3.9	24
33	Soil bioassays as tools for sludge compost quality assessment. Waste Management, 2011, 31, 512-522.	7.4	21
34	Unmanned aerial system protocol for quarry restoration and mineral extraction monitoring. Journal of Environmental Management, 2020, 270, 110717.	7.8	21
35	Tracers and constituents indicating the nature of organic fluxes, their origin and the effect of environmental conditions. Continental Shelf Research, 1990, 10, 1039-1062.	1.8	18
36	Respiration potential of microbial biomass in a calcareous soil treated with sewage sludge. Geomicrobiology Journal, 1993, 11, 333-340.	2.0	17

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37	A multi-criteria evaluation of organic amendments used to transform an unproductive shrubland into a Mediterranean dehesa. Journal of Environmental Management, 2007, 82, 446-456.	7.8	17
38	Effects of nonylphenols on soil microbial activity and water retention. Applied Soil Ecology, 2013, 64, 77-83.	4.3	17
39	Carbon sequestration in a limestone quarry mine soil amended with sewage sludge. Soil Use and Management, 2015, 31, 270-278.	4.9	17
40	Discrimination of Soils and Assessment of Soil Fertility Using Information from an Ion Selective Electrodes Array and Artificial Neural Networks. Clean - Soil, Air, Water, 2014, 42, 1808-1815.	1.1	16
41	Wetting process and soil water retention of a minesoil amended with composted and thermally dried sludges. Geoderma, 2010, 156, 399-409.	5.1	15
42	Improving substrate fertility to enhance growth and reproductive ability of a Pinus halepensis Mill. afforestation in a restored limestone quarry. New Forests, 2012, 43, 365-381.	1.7	15
43	Midâ€term effects on ecosystem services of quarry restoration with Technosols under Mediterranean conditions: 10â€year impacts on soil organic carbon and vegetation development. Restoration Ecology, 2020, 28, 960-970.	2.9	15
44	Soil Erosion Monitoring in Quarry Restoration Using Drones. Minerals (Basel, Switzerland), 2021, 11, 949.	2.0	15
45	Drone-Based Identification of Erosive Processes in Open-Pit Mining Restored Areas. Land, 2022, 11, 212.	2.9	14
46	FEEDING INHIBITION IN THE SOIL COLLEMBOLAN FOLSOMIA CANDIDA AS AN ENDPOINT FOR THE ESTIMATION OF ORGANIC WASTE ECOTOXICITY. Environmental Toxicology and Chemistry, 2007, 26, 1538.	4.3	13
47	Bioassays prove the suitability of mining debris mixed with sewage sludge for land reclamation purposes. Journal of Soils and Sediments, 2010, 10, 30-44.	3.0	13
48	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
49	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
50	Can Organic Amendments Be Useful in Transforming a Mediterranean Shrubland into a Dehesa?. Restoration Ecology, 2014, 22, 486-494.	2.9	9
51	Nonylphenol causes shifts in microbial communities and nitrogen mineralization in soil microcosms. Ecotoxicology and Environmental Safety, 2019, 181, 395-403.	6.0	9
52	Substrateâ€Induced Respiration of a Sandy Soil Treated with Different Types of Organic Waste. Communications in Soil Science and Plant Analysis, 2010, 41, 408-423.	1.4	7
53	A multifactorial analysis of soil pyrograms as a criterion for discrimination between humus types. Science of the Total Environment, 1987, 62, 97-106.	8.0	6
54	PY-GC-MS analysis of organic matter in suspended material and deposits of the submarine delta of the rhone river (France). Science of the Total Environment, 1989, 81-82, 71-80.	8.0	6

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55	Pyrolysisâ€”gas chromatographyâ€”mass spectrometry of a low organic matter calcareous soil. Journal of Analytical and Applied Pyrolysis, 1982, 4, 241-256.	5.5	5
56	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
57	Chemical diversity of pyrograms as a discriminating parameter in soil humus and plant residues. Science of the Total Environment, 1988, 68, 241-249.	8.0	4
58	Application of X-ray microanalysis to study the distribution of organic waste in soil. Geoderma, 2001, 104, 1-15.	5.1	4
59	Influence of two humic extracts characterized by Py-GC on soil microbial activities. Science of the Total Environment, 1987, 62, 379-385.	8.0	3
60	UAS Remote Sensing Products for Supporting Extraction Management and Restoration Monitoring in Open-Pit Mines. Proceedings (mdpi), 2019, 30, 4.	0.2	3
61	Discrimination of soils and assessment of some soil fertility parameters using an electronic tongue. , 2011, , .		1