RaÃºl Zornoza

List of Publications by Year
in descending order

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94	4,414	94269 37	110170 64
papers	citations	h-index	g-index

108	108	108	4958
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stability, nutrient availability and hydrophobicity of biochars derived from manure, crop residues, and municipal solid waste for their use as soil amendments. Chemosphere, 2016, 144, 122-130.	4.2	248
2	Near infrared spectroscopy for determination of various physical, chemical and biochemical properties in Mediterranean soils. Soil Biology and Biochemistry, 2008, 40, 1923-1930.	4.2	238
3	Identification of sensitive indicators to assess the interrelationship between soil quality, management practices and human health. Soil, 2015, 1, 173-185.	2.2	209
4	Soil microbial biomass and activity under different agricultural management systems in a semiarid Mediterranean agroecosystem. Soil and Tillage Research, 2010, 109, 110-115.	2.6	198
5	Multivariate statistical and GIS-based approach to evaluate heavy metals behavior in mine sites for future reclamation. Journal of Geochemical Exploration, 2011, 109, 8-17.	1.5	183
6	Effects of agricultural management on surface soil properties and soilâ€“water losses in eastern Spain. Soil and Tillage Research, 2009, 106, 117-123.	2.6	181
7	Changes in Soil Microbial Community Structure Influenced by Agricultural Management Practices in a Mediterranean Agro-Ecosystem. PLoS ONE, 2013, 8, e80522.	1.1	163
8	Low density-microplastics detected in sheep faeces and soil: A case study from the intensive vegetable farming in Southeast Spain. Science of the Total Environment, 2021, 755, 142653.	3.9	148
9	Spiking of NIR regional models using samples from target sites: Effect of model size on prediction accuracy. Geoderma, 2010, 158, 66-77.	2.3	134
10	The impact of intercropping, tillage and fertilizer type on soil and crop yield in fruit orchards under Mediterranean conditions: A meta-analysis of field studies. Agricultural Systems, 2020, 178, 102736.	3.2	131
11	Changes in soil microbial community structure following the abandonment of agricultural terraces in mountainous areas of Eastern Spain. Applied Soil Ecology, 2009, 42, 315-323.	2.1	122
12	Influence of population density on the concentration and speciation of metals in the soil and street dust from urban areas. Chemosphere, 2015, 134, 328-337.	4.2	121
13	Assessing air-drying and rewetting pre-treatment effect on some soil enzyme activities under Mediterranean conditions. Soil Biology and Biochemistry, 2006, 38, 2125-2134.	4.2	99
14	Immediate effects of wildfires on water repellency and aggregate stability in Mediterranean calcareous soils. Catena, 2008, 74, 219-226.	2.2	88
15	Do we really need large spectral libraries for local scale SOC assessment with NIR spectroscopy?. Soil and Tillage Research, 2016, 155, 501-509.	2.6	88
16	Assessment of soil organic carbon at local scale with spiked <scp>NIR</scp> calibrations: effects of selection and extraâ€weighting on the spiking subset. European Journal of Soil Science, 2014, 65, 248-263.	1.8	85
17	Microbial growth and community structure in acid mine soils after addition of different amendments for soil reclamation. Geoderma, 2016, 272, 64-72.	2.3	81
18	Effect of marble waste and pig slurry on the growth of native vegetation and heavy metal mobility in a mine tailing pond. Journal of Geochemical Exploration, 2012, 123, 69-76.	1.5	72

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19	Plant Cover and Soil Biochemical Properties in a Mine Tailing Pond Five Years After Application of Marble Wastes and Organic Amendments. Pedosphere, 2012, 22, 22-32.	2.1	71
20	Phytoremediation of mine tailings with Atriplex halimus and organic/inorganic amendments: A five-year field case study. Chemosphere, 2018, 204, 71-78.	4.2	71
21	Evaluation of soil quality using multiple lineal regression based on physical, chemical and biochemical properties. Science of the Total Environment, 2007, 378, 233-237.	3.9	65
22	Assessment of the lead and zinc contents in natural soils and tailing ponds from the Cartagena-La UniÃ³n mining district, SE Spain. Journal of Geochemical Exploration, 2013, 124, 166-175.	1.5	60
23	Effect of land use and soil properties in the feasibility of two sequential extraction procedures for metals fractionation. Chemosphere, 2019, 218, 266-272.	4.2	58
24	Factors controlling the water repellency induced by fire in calcareous Mediterranean forest soils. European Journal of Soil Science, 2007, 58, 1254-1259.	1.8	56
25	Soil properties under natural forest in the Alicante Province of Spain. Geoderma, 2007, 142, 334-341.	2.3	55
26	Carbon mineralization, microbial activity and metal dynamics in tailing ponds amended with pig slurry and marble waste. Chemosphere, 2013, 90, 2606-2613.	4.2	54
27	Organic matter dynamics, soil aggregation and microbial biomass and activity in Technosols created with metalliferous mine residues, biochar and marble waste. Geoderma, 2017, 301, 19-29.	2.3	54
28	A protocol for the assay of arylesterase activity in soil. Soil Biology and Biochemistry, 2009, 41, 659-662.	4.2	51
29	Assessing the effects of air-drying and rewetting pre-treatment on soil microbial biomass, basal respiration, metabolic quotient and soluble carbon under Mediterranean conditions. European Journal of Soil Biology, 2007, 43, 120-129.	1.4	48
30	Soil properties as key factors controlling water repellency in fire-affected areas: Evidences from burned sites in Spain and Israel. Catena, 2013, 108, 6-13.	2.2	48
31	Carbon and nitrogen mineralization during decomposition of crop residues in a calcareous soil. Geoderma, 2014, 230-231, 58-63.	2.3	48
32	Main factors controlling microbial community structure and function after reclamation of a tailing pond with aided phytostabilization. Geoderma, 2015, 245-246, 1-10.	2.3	48
33	Native soil organic matter conditions the response of microbial communities to organic inputs with different stability. Geoderma, 2017, 295, 1-9.	2.3	45
34	Microbial biomass and activity of an agricultural soil amended with the solid phase of pig slurries. Bioresource Technology, 2007, 98, 3259-3264.	4.8	43
35	Storage Effects on Biochemical Properties of Air-Dried Soil Samples from Southeastern Spain. Arid Land Research and Management, 2009, 23, 213-222.	0.6	43
36	Efficient irrigation management can contribute to reduce soil CO2 emissions in agriculture. Geoderma, 2016, 263, 70-77.	2.3	42

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37	A first-year melon/cowpea intercropping system improves soil nutrients and changes the soil microbial community. Agriculture, Ecosystems and Environment, 2022, 328, 107856.	2.5	42
38	Validating the effectiveness and sensitivity of two soil quality indices based on natural forest soils under Mediterranean conditions. Soil Biology and Biochemistry, 2008, 40, 2079-2087.	4.2	39
39	Assessment of metals behaviour in industrial soil using sequential extraction, multivariable analysis and a geostatistical approach. Journal of Geochemical Exploration, 2017, 172, 174-183.	1.5	38
40	The impact of crop diversification, tillage and fertilization type on soil total microbial, fungal and bacterial abundance: A worldwide meta-analysis of agricultural sites. Agriculture, Ecosystems and Environment, 2022, 329, 107867.	2.5	38
41	Evaluation of the suitability of three Mediterranean shrub species for phytostabilization of pyritic mine soils. Catena, 2016, 136, 59-65.	2.2	36
42	Comparing legumes for use in multiple cropping to enhance soil organic carbon, soil fertility, aggregates stability and vegetables yields under semi-arid conditions. Scientia Horticulturae, 2019, 246, 835-841.	1.7	36
43	Greenhouse gas emissions and soil organic matter dynamics in woody crop orchards with different irrigation regimes. Science of the Total Environment, 2018, 644, 1429-1438.	3.9	34
44	Evaluation of carbon and nitrogen dynamics in different soil types amended with pig slurry, pig manure and its biochar by chemical and thermogravimetric analysis. Biology and Fertility of Soils, 2015, 51, 183-196.	2.3	33
45	Influence of plant species on physical, chemical and biological soil properties in a Mediterranean forest soil. European Journal of Forest Research, 2010, 129, 15-24.	1.1	31
46	The Effect of Former Mining Activities on Contamination Dynamics in Sediments, Surface Water and Vegetation in El Avenque Stream, SE Spain. Water, Air, and Soil Pollution, 2012, 223, 519-532.	1.1	29
47	Use of Piptatherum miliaceum for the phytomanagement of biochar amended Technosols derived from pyritic tailings to enhance soil aggregation and reduce metal(loid) mobility. Geoderma, 2017, 307, 159-171.	2.3	29
48	Assessment of environmental risk of reclaimed mining ponds using geophysics and geochemical techniques. Journal of Geochemical Exploration, 2014, 147, 80-90.	1.5	28
49	Seedling emergence, growth and trace elements tolerance and accumulation by Lamiaceae species in a mine soil. Chemosphere, 2014, 113, 132-140.	4.2	28
50	Influence of cropping system management and crop residue addition on soil carbon turnover through the microbial biomass. Biology and Fertility of Soils, 2015, 51, 839-845.	2.3	24
51	Is aided phytostabilization a suitable technique for the remediation of tailings?. European Journal of Soil Science, 2019, 70, 862-875.	1.8	22
52	Short-term impact of crop diversification on soil carbon fluxes and balance in rainfed and irrigated woody cropping systems under semiarid Mediterranean conditions. Plant and Soil, 2021, 467, 499-514.	1.8	20
53	Cultivation of <scp>Opuntia ficusâ€indica</scp> under different soil management practices: A possible sustainable agricultural system to promote soil carbon sequestration and increase soil microbial biomass and activity. Land Degradation and Development, 2018, 29, 38-46.	1.8	19
54	Comparison of Soil Physical, Chemical, and Biochemical Properties Among Native Forest, Maintained and Abandoned Almond Orchards in Mountainous Areas of Eastern Spain. Arid Land Research and Management, 2009, 23, 267-282.	0.6	18

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55	The presence of ash as an interference factor in the estimation of the maximum temperature reached in burned soils using near-infrared spectroscopy (NIR). Catena, 2008, 74, 177-184.	2.2	16
56	Carbon stocks and dynamics in grazing highlands from the Andean Plateau. Catena, 2013, 104, 136-143.	2.2	15
57	A laboratory comparison of the interactions between three plastic mulch types and 38 active substances found in pesticides. PeerJ, 2020, 8, e9876.	0.9	15
58	Effects of Biochar and Marble mud on Mine Waste Properties to Reclaim Tailing Ponds. Land Degradation and Development, 2016, 27, 1227-1235.	1.8	14
59	Does the use of cowpea in rotation with a vegetable crop improve soil quality and crop yield and quality? A field study in SE Spain. European Journal of Agronomy, 2019, 107, 10-17.	1.9	14
60	Marble wastes and pig slurry improve the environmental and plant-relevant properties of mine tailings. Environmental Geochemistry and Health, 2014, 36, 41-54.	1.8	13
61	Bioaugmentaton in Technosols created in abandoned pyritic tailings can contribute to enhance soil C sequestration and plant colonization. Science of the Total Environment, 2017, 593-594, 357-367.	3.9	13
62	Measurement of the broadband complex permittivity of soils in the frequency domain with a low-cost Vector Network Analyzer and an Open-Ended coaxial probe. Computers and Electronics in Agriculture, 2022, 195, 106847.	3.7	13
63	Environmental pollution and depth distribution of metal(loid)s and rare earth elements in mine tailing. Journal of Environmental Chemical Engineering, 2022, 10, 107526.	3.3	13
64	Estimation of the maximum temperature reached in burned soils using near-infrared spectroscopy: Effects of soil sample pre-treatments. Geoderma, 2010, 158, 85-92.	2.3	12
65	Arylesterase activity in trace element contaminated soils. European Journal of Soil Science, 2011, 62, 590-597.	1.8	12
66	Creation of Technosols to Decrease Metal Availability in Pyritic Tailings with Addition of Biochar and Marble Waste. Land Degradation and Development, 2017, 28, 1943-1951.	1.8	12
67	Nutritional status and its interaction with soil properties and trace elements in six Mediterranean shrub species grown in reclaimed pyritic tailings. Ecological Engineering, 2017, 109, 25-34.	1.6	11
68	Changes in Bacterial and Fungal Soil Communities in Long-Term Organic Cropping Systems. Agriculture (Switzerland), 2021, 11, 445.	1.4	10
69	Soil Water Content Prediction Using Electrical Resistivity Tomography (ERT) in Mediterranean Tree Orchard Soils. Sensors, 2022, 22, 1365.	2.1	10
70	Syrian Bean-Caper (Zygophyllum fabagoL.) Improves Organic Matter and Other Properties of Mine Wastes Deposits. International Journal of Phytoremediation, 2014, 16, 366-378.	1.7	9
71	Effectiveness of pig sludge as organic amendment of different textural class mine tailings with different periods of amendment-contact time. Journal of Environmental Management, 2019, 230, 311-318.	3.8	9
72	Comparison of soil organic carbon pools, microbial activity and crop yield and quality in two vegetable multiple cropping systems under mediterranean conditions. Scientia Horticulturae, 2020, 261, 109025.	1.7	9

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73	Effect of South American grazing camelids on soil fertility and vegetation at the Bolivian Andean grasslands. Agriculture, Ecosystems and Environment, 2015, 207, 203-210.	2.5	8
74	Mining environments. Advances in Chemical Pollution, Environmental Management and Protection, 2019, 4, 157-205.	0.3	8
75	A comparative greenhouse gas emissions study of legume and non-legume crops grown using organic and conventional fertilizers. Scientia Horticulturae, 2020, 260, 108902.	1.7	7
76	Barriers and Opportunities for the Implementation of Sustainable Farming Practices in Mediterranean Tree Orchards. Agronomy, 2021, 11, 821.	1.3	7
77	Cowpea Crop Response to Mineral and Organic Fertilization in SE Spain. Processes, 2021, 9, 822.	1.3	7
78	Metals and metalloids in primary gold mining districts of Western Bolivia: anthropogenic and natural sources. Environmental Earth Sciences, 2014, 71, 5027-5036.	1.3	5
79	Kaolinite neoformation from palygorskite in the rhizosphere of citrus trees in semi-arid regions. Catena, 2020, 185, 104292.	2.2	5
80	Pepper crop residues and chemical fertilizers effect on soil fertility, yield and nutritional status in a crop of Brassica oleracea. Journal of Soil Science and Plant Nutrition, 2017, 17, 648-661.	1.7	5
81	Long-Term Compost Amendment Changes Interactions and Specialization in the Soil Bacterial Community, Increasing the Presence of Beneficial N-Cycling Genes in the Soil. Agronomy, 2022, 12, 316.	1.3	5
82	Effects of pepper crop residues and inorganic fertilizers on soil properties relevant to carbon cycling and broccoli production. Soil Use and Management, 2013, 29, 519-530.	2.6	4
83	Evaluation of the performance of chemical extractants to mobilise metals for remediation of contaminated samples. Journal of Geochemical Exploration, 2018, 193, 22-31.	1.5	4
84	Changes in carbon pools and enzyme activities in soil amended with pig slurry derived from different feeding diets and filtration process. Geoderma, 2020, 380, 114640.	2.3	4
85	Are the soils and vegetation of a forest close to tailings ponds affected by metals and arsenic?. Environmental Geochemistry and Health, 2022, 44, 15-28.	1.8	4
86	Use of Piptatherum miliaceum to enable the establishment success of Salvia rosmarinus in Technosols developed from pyritic tailings. Chemosphere, 2021, 267, 129281.	4.2	2
87	RehabilitaciÃ³n de una presa de residuos mineros mediante la aplicaciÃ³n de lodo de mÃ¡rmol y purÃn de cerdo para el desarrollo de una fitoestabilizaciÃ³n asistida. Boletin Geologico Y Minero, 2017, 128, 421-435.	0.0	2
88	Agricultural Diversification. Agriculture (Switzerland), 2022, 12, 369.	1.4	2
89	Decision Pattern for Changing Polluted Areas into Recreational Places. Agronomy, 2022, 12, 775.	1.3	2
90	Soil sodium, magnesium and potassium contents contribute to metals uptake and accumulation in leaves of Atriplex halimus in tailings ponds. Journal of Environmental Chemical Engineering, 2022, 10, 107948.	3.3	2

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91	Nitrogen Dynamic in Soils Amended with Legislated and Extremely High Doses of Pig Slurry. Communications in Soil Science and Plant Analysis, 2014, 45, 2429-2446.	0.6	1
92	Environmental Risk Assessment of Tailings Ponds Using Geophysical and Geochemical Techniques. , 2017, , 135-148.		1
93	Nitrogen Assessment in Amended Mining Soils Sown with Coronilla juncea and Piptatherum miliaceum. Minerals (Basel, Switzerland), 2022, 12, 433.	0.8	1
94	Suitability of Different Mediterranean Plants for Phytoremediation of Mine Soils Affected with Cadmium. , 2016, , 385-399.		0