

Esperanza Álvarez

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

3,164
citations

136740

32
h-index

214527

47
g-index

137
all docs

137
docs citations

137
times ranked

2826
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-course evolution of bacterial community tolerance to tetracycline antibiotics in agricultural soils: A laboratory experiment. <i>Chemosphere</i> , 2022, 291, 132758.	4.2	7
2	Degradation of Doxycycline, Enrofloxacin, and Sulfamethoxypyridazine under Simulated Sunlight at Different pH Values and Chemical Environments. <i>Agronomy</i> , 2022, 12, 260.	1.3	4
3	Relevance of sorption in bio-reduction of amoxicillin taking place in forest and crop soils. <i>Environmental Research</i> , 2022, 208, 112753.	3.7	12
4	Biotic and Abiotic Contamination Due to Emerging Pollutants in Sewage Sludge and Soils: A Country-Based Perspective. <i>Handbook of Environmental Chemistry</i> , 2022, , 1.	0.2	0
5	Amoxicillin Retention/Release in Agricultural Soils Amended with Different Bio-Adsorbent Materials. <i>Materials</i> , 2022, 15, 3200.	1.3	10
6	Competitive adsorption and desorption of tetracycline and sulfadiazine in crop soils. <i>Environmental Research</i> , 2022, 214, 113726.	3.7	8
7	Potential of low-cost bio-adsorbents to retain amoxicillin in contaminated water. <i>Environmental Research</i> , 2022, 213, 113621.	3.7	6
8	Tolerance of soil bacterial community to tetracycline antibiotics induced by As, Cd, Zn, Cu, Ni, Cr, and Pb pollution. <i>Soil</i> , 2022, 8, 437-449.	2.2	6
9	Ciprofloxacin and Trimethoprim Adsorption/Desorption in Agricultural Soils. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 8426.	1.2	12
10	Optimization of synergistic biosorption of oxytetracycline and cadmium from binary mixtures on reed-based beads: modeling study using Brouers-Sotolongo models. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46431-46447.	2.7	18
11	Use of waste materials to prevent tetracycline antibiotics toxicity on the growth of soil bacterial communities. <i>Environmental Research</i> , 2021, 193, 110404.	3.7	13
12	Data on the use of sorbents to control pollution in Europe, with main focus on Spain and Galicia. , 2021, , 15-31.		0
13	Sorbents to control soil pollution. , 2021, , 691-700.		1
14	Optimization of Simultaneous Removal of Binary Toxic Antibiotic and Heavy Metal by Novel Biocomposite Beads: Modeling Study Using Brouers-Sotolongo Family Equations. <i>Environmental Science and Engineering</i> , 2021, , 107-113.	0.1	0
15	Photodegradation of Ciprofloxacin, Clarithromycin and Trimethoprim: Influence of pH and Humic Acids. <i>Molecules</i> , 2021, 26, 3080.	1.7	10
16	Soil Enzymatic Activities and Microbial Community Structure in Soils Polluted with Tetracycline Antibiotics. <i>Agronomy</i> , 2021, 11, 906.	1.3	9
17	Retention of the Antibiotic Cefuroxime onto Agricultural and Forest Soils. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4663.	1.3	6
18	SARS-CoV-2 and other main pathogenic microorganisms in the environment: Situation in Galicia and Spain. <i>Environmental Research</i> , 2021, 197, 111049.	3.7	10

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19	Efficacy of Different Waste and By-Products from Forest and Food Industries in the Removal/Retention of the Antibiotic Cefuroxime. <i>Processes</i> , 2021, 9, 1151.	1.3	14
20	Sorbents for antibiotics removal. , 2021, , 417-433.		0
21	Adsorption of Tetracycline and Sulfadiazine onto Three Different Bioadsorbents in Binary Competitive Systems. <i>Processes</i> , 2021, 9, 28.	1.3	9
22	Tetracycline and Sulfonamide Antibiotics in Soils: Presence, Fate and Environmental Risks. <i>Processes</i> , 2020, 8, 1479.	1.3	78
23	Effect of Oxytetracycline and Chlortetracycline on Bacterial Community Growth in Agricultural Soils. <i>Agronomy</i> , 2020, 10, 1011.	1.3	12
24	Competitive adsorption and desorption of three tetracycline antibiotics on bio-sorbent materials in binary systems. <i>Environmental Research</i> , 2020, 190, 110003.	3.7	22
25	Bacterial Community Tolerance to Tetracycline Antibiotics in Cu Polluted Soils. <i>Agronomy</i> , 2020, 10, 1220.	1.3	10
26	Adsorption/desorption of three tetracycline antibiotics on different soils in binary competitive systems. <i>Journal of Environmental Management</i> , 2020, 262, 110337.	3.8	24
27	By-Products from Forest Activities as Low-Cost Sorbents for Bioremediation of Effluents and Other Polluted Media. , 2020, , 1-14.		0
28	Controlling risks of P water pollution by sorption on soils, pyritic material, granitic material, and different by-products: effects of pH and incubation time. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11558-11564.	2.7	5
29	Effects of Microbiological and Non-Microbiological Treatments of Sewage Sludge on Antibiotics as Emerging Pollutants Present in Wastewater. , 2019, , 1-17.		9
30	Experimental data and modeling for sulfachloropyridazine and sulfamethazine adsorption/desorption on agricultural acid soils. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109601.	2.2	26
31	Pedotransfer functions to estimate the adsorption and desorption of sulfadiazine in agricultural soils. <i>Science of the Total Environment</i> , 2019, 691, 933-942.	3.9	19
32	Experimental data and model prediction of tetracycline adsorption and desorption in agricultural soils. <i>Environmental Research</i> , 2019, 177, 108607.	3.7	50
33	Competitive adsorption of tetracycline, oxytetracycline and chlortetracycline on soils with different pH value and organic matter content. <i>Environmental Research</i> , 2019, 178, 108669.	3.7	50
34	Competitive adsorption/desorption of tetracycline, oxytetracycline and chlortetracycline on pine bark, oak ash and mussel shell. <i>Journal of Environmental Management</i> , 2019, 250, 109509.	3.8	36
35	Adsorption/desorption and transport of sulfadiazine, sulfachloropyridazine, and sulfamethazine, in acid agricultural soils. <i>Chemosphere</i> , 2019, 234, 978-986.	4.2	34
36	The effect of over 50 years of liming on soil aluminium forms in a Retisol. <i>Journal of Agricultural Science</i> , 2019, 157, 12-19.	0.6	11

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37	Efficacy of two different reclamation strategies to improve chemical properties and to reduce Al toxicity in a lignite mine dump during a 20-year period. <i>Land Degradation and Development</i> , 2019, 30, 658-669.	1.8	4
38	Low cost organic and inorganic sorbents to fight soil and water pollution. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11511-11513.	2.7	8
39	Copper and zinc in rhizospheric soil of wild plants growing in long-term acid vineyard soils. Insights on availability and metal remediation. <i>Science of the Total Environment</i> , 2019, 672, 389-399.	3.9	18
40	Chromium VI and Fluoride Competitive Adsorption on Different Soils and By-Products. <i>Processes</i> , 2019, 7, 748.	1.3	11
41	Using pine bark and mussel shell amendments to reclaim microbial functions in a Cu polluted acid mine soil. <i>Applied Soil Ecology</i> , 2018, 127, 102-111.	2.1	14
42	Degradation of sulfadiazine, sulfachloropyridazine and sulfamethazine in aqueous media. <i>Journal of Environmental Management</i> , 2018, 228, 239-248.	3.8	52
43	Chromium and fluoride sorption/desorption on un-amended and waste-amended forest and vineyard soils and pyritic material. <i>Journal of Environmental Management</i> , 2018, 222, 3-11.	3.8	22
44	Occurrence of tetracyclines and sulfonamides in manures, agricultural soils and crops from different areas in Galicia (NW Spain). <i>Journal of Cleaner Production</i> , 2018, 197, 491-500.	4.6	112
45	Effects of Changing pH, Incubation Time, and As(V) Competition, on As(V) Retention on Soils, Natural Adsorbents, By-Products, and Waste Materials. <i>Frontiers in Chemistry</i> , 2018, 6, 51.	1.8	4
46	Biotic and abiotic dissipation of tetracyclines using simulated sunlight and in the dark. <i>Science of the Total Environment</i> , 2018, 635, 1520-1529.	3.9	53
47	Heavy metals fractionation and desorption in pine bark amended mine soils. <i>Journal of Environmental Management</i> , 2017, 192, 79-88.	3.8	26
48	Pine Bark Amendment to Promote Sustainability in Cu-Polluted Acid Soils: Effects on <i>Lolium perenne</i> Growth and Cu Uptake. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	6
49	As(V)/Cr(VI) retention on un-amended and waste-amended soil samples: competitive experiments. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1051-1059.	2.7	9
50	Removal of anionic pollutants by pine bark is influenced by the mechanism of retention. <i>Chemosphere</i> , 2017, 167, 139-145.	4.2	14
51	Cu Immobilization and <i>Lolium perenne</i> Development in an Acid Vineyard Soil Amended with Crushed Mussel Shell. <i>Land Degradation and Development</i> , 2017, 28, 762-772.	1.8	20
52	As(V) Sorption/Desorption on Different Waste Materials and Soil Samples. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 803.	1.2	10
53	Wheat Straw as a Bio-Sorbent for Arsenate, Chromate, Fluoride, and Nickel. <i>Water (Switzerland)</i> , 2017, 9, 690.	1.2	7
54	Cadmium and Lead Sorption/Desorption on Non-Amended and By-Product-Amended Soil Samples and Pyritic Material. <i>Water (Switzerland)</i> , 2017, 9, 886.	1.2	12

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55	Evolution of Chemical Characteristics of Technosols in an Afforested Coal Mine Dump over a 20-year Period. <i>Land Degradation and Development</i> , 2016, 27, 1640-1649.	1.8	23
56	Aluminium Toxicity Risk for <i>Pinus pinaster</i> in Acid Soils (Galicia, NW Spain). <i>Land Degradation and Development</i> , 2016, 27, 1731-1739.	1.8	6
57	Promoting sustainability in the mussel industry: mussel shell recycling to fight fluoride pollution. <i>Journal of Cleaner Production</i> , 2016, 131, 485-490.	4.6	30
58	Study of metal transport through pine bark for reutilization as a biosorbent. <i>Chemosphere</i> , 2016, 149, 146-153.	4.2	30
59	Lithological and land-use based assessment of heavy metal pollution in soils surrounding a cement plant in SW Europe. <i>Science of the Total Environment</i> , 2016, 562, 179-190.	3.9	30
60	Phosphorus retention on forest and vineyard soil samples, mussel shell, pine-sawdust, and on pyritic, granitic and waste materials. <i>Geoderma</i> , 2016, 280, 8-13.	2.3	12
61	As(V)/Cr(VI) pollution control in soils, hemp waste, and other by-products: competitive sorption trials. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19182-19192.	2.7	13
62	F sorption/desorption on two soils and on different by-products and waste materials. <i>Environmental Science and Pollution Research</i> , 2016, 23, 14676-14685.	2.7	10
63	Phosphorus removal from wastewater using mussel shell: Investigation on retention mechanisms. <i>Ecological Engineering</i> , 2016, 97, 558-566.	1.6	55
64	Competitive and non-competitive cadmium, copper and lead sorption/desorption on wheat straw affecting sustainability in vineyards. <i>Journal of Cleaner Production</i> , 2016, 139, 1496-1503.	4.6	34
65	Valorization of biosorbent obtained from a forestry waste: Competitive adsorption, desorption and transport of Cd, Cu, Ni, Pb and Zn. <i>Ecotoxicology and Environmental Safety</i> , 2016, 131, 118-126.	2.9	38
66	Aluminum fractionation and speciation in a coal mine dump: Twenty years of time-course evolution. <i>Geoderma</i> , 2016, 273, 45-53.	2.3	5
67	Changes in Cd, Cu, Ni, Pb and Zn Fractionation and Liberation Due to Mussel Shell Amendment on a Mine Soil. <i>Land Degradation and Development</i> , 2016, 27, 1276-1285.	1.8	28
68	Cr(VI) Sorption/Desorption on Pine Sawdust and Oak Wood Ash. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 8849-8860.	1.2	15
69	As(V) and P Competitive Sorption on Soils, By-Products and Waste Materials. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 15706-15715.	1.2	24
70	Cr(VI) sorption/desorption on untreated and mussel-shell-treated soil materials: fractionation and effects of pH and chromium concentration. <i>Solid Earth</i> , 2015, 6, 373-382.	1.2	33
71	Competitive adsorption/desorption of tetracycline, oxytetracycline and chlortetracycline on two acid soils: Stirred flow chamber experiments. <i>Chemosphere</i> , 2015, 134, 361-366.	4.2	67
72	Perspectives on the use of by-products to treat soil and water pollution. <i>Microporous and Mesoporous Materials</i> , 2015, 210, 199-201.	2.2	32

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73	Variability in needle lifespan and foliar biomass along a gradient of soil fertility in maritime pine plantations on acid soils rich in organic matter. <i>Forest Ecology and Management</i> , 2015, 343, 34-41.	1.4	8
74	Adsorption, desorption and fractionation of As(V) on untreated and mussel shell-treated granitic material. <i>Solid Earth</i> , 2015, 6, 337-346.	1.2	19
75	Influence of parent material on the aluminium fractions in acidic soils under <i>Pinus pinaster</i> in Galicia (NW Spain). <i>Geoderma</i> , 2015, 255-256, 50-57.	2.3	28
76	Relationships between needle traits, needle age and site and stand parameters in <i>Pinus pinaster</i> . <i>Trees - Structure and Function</i> , 2015, 29, 1103-1113.	0.9	19
77	Kinetics of tetracycline, oxytetracycline, and chlortetracycline adsorption and desorption on two acid soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 425-433.	2.7	50
78	Effect of crushed mussel shell addition on bacterial growth in acid polluted soils. <i>Applied Soil Ecology</i> , 2015, 85, 65-68.	2.1	14
79	Nitrogen, phosphorus, potassium, calcium and magnesium release from two compressed fertilizers: column experiments. <i>Solid Earth</i> , 2014, 5, 1351-1360.	1.2	12
80	Spreading of mixtures including wastes from the mussel shell treatment industry on an acid soil: effects on the dissolved aluminum species and on pasture production. <i>Journal of Cleaner Production</i> , 2014, 70, 154-163.	4.6	19
81	Mixtures including wastes from the mussel shell processing industry: retention of arsenic, chromium and mercury. <i>Journal of Cleaner Production</i> , 2014, 84, 680-690.	4.6	40
82	Competitive adsorption and transport of Cd, Cu, Ni and Zn in a mine soil amended with mussel shell. <i>Chemosphere</i> , 2014, 107, 379-385.	4.2	29
83	Significance of bedrock as a site factor determining nutritional status and growth of maritime pine. <i>Forest Ecology and Management</i> , 2014, 331, 19-24.	1.4	20
84	Pine bark as bio-adsorbent for Cd, Cu, Ni, Pb and Zn: Batch-type and stirred flow chamber experiments. <i>Journal of Environmental Management</i> , 2014, 144, 258-264.	3.8	70
85	Fluoride sorption and desorption on soils located in the surroundings of an aluminium smelter in Galicia (NW Spain). <i>Environmental Earth Sciences</i> , 2014, 72, 4105-4114.	1.3	28
86	As(V) adsorption on forest and vineyard soils and pyritic material with or without mussel shell: Kinetics and fractionation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1007-1014.	2.7	28
87	Influence of mussel shell on As and Cr competitive and non-competitive sorption-desorption kinetics in a mine soil: stirred flow chamber experiments. <i>Geoderma</i> , 2014, 232-234, 300-308.	2.3	20
88	pH-dependent copper release in acid soils treated with crushed mussel shell. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 983-994.	1.8	19
89	As(V) retention on soils and forest by-products and other waste materials. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6574-6583.	2.7	39
90	Arsenic, chromium and mercury removal using mussel shell ash or a sludge/ashes waste mixture. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2670-2678.	2.7	55

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91	Mercury removal using ground and calcined mussel shell. <i>Journal of Environmental Sciences</i> , 2013, 25, 2476-2486.	3.2	32
92	Cr(VI) Adsorption and Desorption on Soils and Biosorbents. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	51
93	Fluorine immission to acid soil in the vicinity of an aluminium smelter in Galicia (NW Spain) and its influence on aluminium dynamics. <i>Journal of Soils and Sediments</i> , 2013, 13, 72-81.	1.5	6
94	Heavy metal retention in copper mine soil treated with mussel shells: Batch and column experiments. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 122-130.	6.5	45
95	Use of Mussel Shells as a Soil Amendment: Effects on Bulk and Rhizosphere Soil and Pasture Production. <i>Pedosphere</i> , 2012, 22, 152-164.	2.1	39
96	Aluminium fractionation and speciation in bulk and rhizosphere of a grass soil amended with mussel shells or lime. <i>Geoderma</i> , 2012, 173-174, 322-329.	2.3	48
97	Micronutrients and toxic trace metals in the bulk and rhizospheric soil of the spontaneous vegetation at an abandoned copper mine in Galicia (NW Spain). <i>Journal of Geochemical Exploration</i> , 2012, 112, 84-92.	1.5	34
98	Fluorine sorption by soils developed from various parent materials in Galicia (NW Spain). <i>Journal of Colloid and Interface Science</i> , 2012, 374, 232-236.	5.0	38
99	Effect of particle size of limestone on Ca, Mg and K contents in soil and in sward plants. <i>Scientia Agricola</i> , 2011, 68, 200-208.	0.6	19
100	Aluminum speciation in the bulk and rhizospheric soil solution of the species colonizing an abandoned copper mine in Galicia (NW Spain). <i>Journal of Soils and Sediments</i> , 2011, 11, 221-230.	1.5	22
101	Effect of the addition of cattle slurry plus different types of livestock litter to an acid soil and on the production of grass and corn crops. <i>Waste Management and Research</i> , 2011, 29, 268-276.	2.2	5
102	Effect of Limestone of Different Sizes on Soil Extractable Phosphorus and Its Concentrations in Grass and Clover Species. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 381-394.	0.6	6
103	Limestone Particle Size and Liming Scheduling Influence Soil Properties and Pasture Production. <i>Soil Science</i> , 2010, 175, 601-613.	0.9	11
104	Kinetics of Hg(II) adsorption and desorption in calcined mussel shells. <i>Journal of Hazardous Materials</i> , 2010, 180, 622-627.	6.5	44
105	Aluminium geochemistry in the bulk and rhizospheric soil of the species colonising an abandoned copper mine in Galicia (NW Spain). <i>Journal of Soils and Sediments</i> , 2010, 10, 1236-1245.	1.5	23
106	Effect of liming with different sized limestone on the forms of aluminium in a Galician soil (NW) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14</i>	2.3	59
107	Influence of Fluoride Addition on the Composition of Solutions in Equilibrium with Acid Soils. <i>Pedosphere</i> , 2009, 19, 60-70.	2.1	15
108	Dynamics of macronutrients during the first stages of litter decomposition from forest species in a temperate area (Galicia, NW Spain). <i>Nutrient Cycling in Agroecosystems</i> , 2008, 80, 243-256.	1.1	22

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109	Application of aluminium toxicity indices to soils under various forest species. <i>Forest Ecology and Management</i> , 2005, 211, 227-239.	1.4	111
110	Influence of parent material and soil type on the root chemistry of forest species grown on acid soils. <i>Forest Ecology and Management</i> , 2004, 193, 307-320.	1.4	19
111	Heavy metals in the dump of an abandoned mine in Galicia (NW Spain) and in the spontaneously occurring vegetation. <i>Science of the Total Environment</i> , 2003, 313, 185-197.	3.9	109
112	Title is missing!. <i>Soil Science</i> , 2003, 168, 267-279.	0.9	5
113	Aluminium fractionation in Galician (NW Spain) forest soils as related to vegetation and parent material. <i>Forest Ecology and Management</i> , 2002, 166, 193-206.	1.4	72
114	Dynamics of glyphosate and aminomethylphosphonic acid in a forest soil in Galicia, north-west Spain. <i>Science of the Total Environment</i> , 2001, 271, 135-144.	3.9	96
115	Geochemistry of Aluminium and Iron in Mine Soils from As Pontes, Galicia (N.W. Spain). <i>Water, Air, and Soil Pollution</i> , 1999, 110, 81-102.	1.1	11
116	Evaluation of Mehlich 3 reagent as a multielement extractant in mine soils. <i>Land Degradation and Development</i> , 1999, 10, 35-47.	1.8	52
117	Heavy metals in mine soils amended with sewage sludge. <i>Land Degradation and Development</i> , 1999, 10, 555-564.	1.8	19
118	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1998, 103, 35-53.	1.1	24
119	Chemistry of soil solutions under different kinds of vegetation in the vicinity of a thermal power station. <i>Environmental Pollution</i> , 1998, 101, 131-142.	3.7	6
120	Aluminum and iron estimated by Mehlich's extractant in mine soils in Galicia, northwest Spain. <i>Communications in Soil Science and Plant Analysis</i> , 1998, 29, 599-612.	0.6	14
121	Factors influencing phosphorus adsorption in mine soils in Galicia, Spain. <i>Science of the Total Environment</i> , 1996, 180, 137-145.	3.9	22
122	Solubility equilibria controlling solution phosphorus concentration in minesoils in Galicia, Spain. <i>Science of the Total Environment</i> , 1996, 180, 147-154.	3.9	6
123	Response of some soils of Galicia (NW Spain) to H ₂ SO ₄ acidification. <i>Water, Air, and Soil Pollution</i> , 1994, 74, 89-101.	1.1	7
124	Speciation and solubility control of Al and Fe in minesoil solutions. <i>Science of the Total Environment</i> , 1994, 158, 31-43.	3.9	29
125	Aluminium speciation in surface waters and soil solutions in areas of sulphide mineralization in Galicia (N.W. Spain). <i>Science of the Total Environment</i> , 1993, 133, 17-37.	3.9	26
126	Geochemical aspects of aluminium in forest soils in Galicia (N.W. Spain). <i>Biogeochemistry</i> , 1992, 16, 167.	1.7	43

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127	Aluminium activity in soil solution and mineral stability in soils from Galicia (NW Spain). Clay Minerals, 1992, 27, 325-330.	0.2	2
128	Copper content and distribution in vineyard soils from Betanzos (A Coruña, Spain). Spanish Journal of Soil Science, 0, 5, .	0.0	10
129	Heavy metals in pastureland soils situated in A Pastoriza (NW Spain) treated with cattle slurry and NPK fertilizers. Spanish Journal of Soil Science, 0, 5, .	0.0	3
130	By-products as an amendment of a mine soil: effects on microbial biomass determined using phospholipid fatty acids. Spanish Journal of Soil Science, 0, 8, .	0.0	2
131	Influence of Pinus pinaster age on aluminium fractions in acidic soils. Spanish Journal of Soil Science, 0, 10, .	0.0	0
132	Influence of pH, Humic Acids, and Salts on the Dissipation of Amoxicillin and Azithromycin Under Simulated Sunlight. Spanish Journal of Soil Science, 0, 12, .	0.0	12