Esperanza Ãlvarez

List of Publications by Year
in descending order

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	Occurrence of tetracyclines and sulfonamides in manures, agricultural soils and crops from different areas in Galicia (NW Spain). Journal of Cleaner Production, 2018, 197, 491-500.	4.6	112
2	Application of aluminium toxicity indices to soils under various forest species. Forest Ecology and Management, 2005, 211, 227-239.	1.4	111
3	Heavy metals in the dump of an abandoned mine in Galicia (NW Spain) and in the spontaneously occurring vegetation. Science of the Total Environment, 2003, 313, 185-197.	3.9	109
4	Dynamics of glyphosate and aminomethylphosphonic acid in a forest soil in Galicia, north-west Spain. Science of the Total Environment, 2001, 271, 135-144.	3.9	96
5	Tetracycline and Sulfonamide Antibiotics in Soils: Presence, Fate and Environmental Risks. Processes, 2020, 8, 1479.	1.3	78
6	Aluminium fractionation in Galician (NW Spain) forest soils as related to vegetation and parent material. Forest Ecology and Management, 2002, 166, 193-206.	1.4	72
7	Pine bark as bio-adsorbent for Cd, Cu, Ni, Pb and Zn: Batch-type and stirred flow chamber experiments. Journal of Environmental Management, 2014, 144, 258-264.	3.8	70
8	Competitive adsorption/desorption of tetracycline, oxytetracycline and chlortetracycline on two acid soils: Stirred flow chamber experiments. Chemosphere, 2015, 134, 361-366.	4.2	67
9	Effect of liming with different sized limestone on the forms of aluminium in a Galician soil (NW) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	59
10	Arsenic, chromium and mercury removal using mussel shell ash or a sludge/ashes waste mixture. Environmental Science and Pollution Research, 2013, 20, 2670-2678.	2.7	55
11	Phosphorus removal from wastewater using mussel shell: Investigation on retention mechanisms. Ecological Engineering, 2016, 97, 558-566.	1.6	55
12	Biotic and abiotic dissipation of tetracyclines using simulated sunlight and in the dark. Science of the Total Environment, 2018, 635, 1520-1529.	3.9	53
13	Evaluation of Mehlich 3 reagent as a multielement extractant in mine soils. Land Degradation and Development, 1999, 10, 35-47.	1.8	52
14	Degradation of sulfadiazine, sulfachloropyridazine and sulfamethazine in aqueous media. Journal of Environmental Management, 2018, 228, 239-248.	3.8	52
15	Cr(VI) Adsorption and Desorption on Soils and Biosorbents. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	51
16	Kinetics of tetracycline, oxytetracycline, and chlortetracycline adsorption and desorption on two acid soils. Environmental Science and Pollution Research, 2015, 22, 425-433.	2.7	50
17	Experimental data and model prediction of tetracycline adsorption and desorption in agricultural soils. Environmental Research, 2019, 177, 108607.	3.7	50
18	Competitive adsorption of tetracycline, oxytetracycline and chlortetracycline on soils with different pH value and organic matter content. Environmental Research, 2019, 178, 108669.	3.7	50

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19	Aluminium fractionation and speciation in bulk and rhizosphere of a grass soil amended with mussel shells or lime. Geoderma, 2012, 173-174, 322-329.	2.3	48
20	Heavy metal retention in copper mine soil treated with mussel shells: Batch and column experiments. Journal of Hazardous Materials, 2013, 248-249, 122-130.	6.5	45
21	Kinetics of Hg(II) adsorption and desorption in calcined mussel shells. Journal of Hazardous Materials, 2010, 180, 622-627.	6.5	44
22	Geochemical aspects of aluminium in forest soils in Galicia (N.W. Spain). Biogeochemistry, 1992, 16, 167.	1.7	43
23	Mixtures including wastes from the mussel shell processing industry: retention of arsenic, chromium and mercury. Journal of Cleaner Production, 2014, 84, 680-690.	4.6	40
24	Use of Mussel Shells as a Soil Amendment: Effects on Bulk and Rhizosphere Soil and Pasture Production. Pedosphere, 2012, 22, 152-164.	2.1	39
25	As(V) retention on soils and forest by-products and other waste materials. Environmental Science and Pollution Research, 2013, 20, 6574-6583.	2.7	39
26	Fluorine sorption by soils developed from various parent materials in Galicia (NW Spain). Journal of Colloid and Interface Science, 2012, 374, 232-236.	5.0	38
27	Valorization of biosorbent obtained from a forestry waste: Competitive adsorption, desorption and transport of Cd, Cu, Ni, Pb and Zn. Ecotoxicology and Environmental Safety, 2016, 131, 118-126.	2.9	38
28	Competitive adsorption/desorption of tetracycline, oxytetracycline and chlortetracycline on pine bark, oak ash and mussel shell. Journal of Environmental Management, 2019, 250, 109509.	3.8	36
29	Micronutrients and toxic trace metals in the bulk and rhizospheric soil of the spontaneous vegetation at an abandoned copper mine in Galicia (NW Spain). Journal of Geochemical Exploration, 2012, 112, 84-92.	1.5	34
30	Competitive and non-competitive cadmium, copper and lead sorption/desorption on wheat straw affecting sustainability in vineyards. Journal of Cleaner Production, 2016, 139, 1496-1503.	4.6	34
31	Adsorption/desorption and transport of sulfadiazine, sulfachloropyridazine, and sulfamethazine, in acid agricultural soils. Chemosphere, 2019, 234, 978-986.	4.2	34
32	Cr(VI) sorption/desorption on untreated and mussel-shell-treated soil materials: fractionation and effects of pH and chromium concentration. Solid Earth, 2015, 6, 373-382.	1.2	33
33	Mercury removal using ground and calcined mussel shell. Journal of Environmental Sciences, 2013, 25, 2476-2486.	3.2	32
34	Perspectives on the use of by-products to treat soil and water pollution. Microporous and Mesoporous Materials, 2015, 210, 199-201.	2.2	32
35	Promoting sustainability in the mussel industry: mussel shell recycling to fight fluoride pollution. Journal of Cleaner Production, 2016, 131, 485-490.	4.6	30
36	Study of metal transport through pine bark for reutilization as a biosorbent. Chemosphere, 2016, 149, 146-153.	4.2	30

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37	Lithological and land-use based assessment of heavy metal pollution in soils surrounding a cement plant in SW Europe. Science of the Total Environment, 2016, 562, 179-190.	3.9	30
38	Speciation and solubility control of Al and Fe in minesoil solutions. Science of the Total Environment, 1994, 158, 31-43.	3.9	29
39	Competitive adsorption and transport of Cd, Cu, Ni and Zn in a mine soil amended with mussel shell. Chemosphere, 2014, 107, 379-385.	4.2	29
40	Fluoride sorption and desorption on soils located in the surroundings of an aluminium smelter in Galicia (NW Spain). Environmental Earth Sciences, 2014, 72, 4105-4114.	1.3	28
41	As(V) adsorption on forest and vineyard soils and pyritic material with or without mussel shell: Kinetics and fractionation. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1007-1014.	2.7	28
42	Influence of parent material on the aluminium fractions in acidic soils under Pinus pinaster in Galicia (NW Spain). Geoderma, 2015, 255-256, 50-57.	2.3	28
43	Changes in Cd, Cu, Ni, Pb and Zn Fractionation and Liberation Due to Mussel Shell Amendment on a Mine Soil. Land Degradation and Development, 2016, 27, 1276-1285.	1.8	28
44	Aluminium speciation in surface waters and soil solutions in areas of sulphide mineralization in Galicia (N.W. Spain). Science of the Total Environment, 1993, 133, 17-37.	3.9	26
45	Heavy metals fractionation and desorption in pine bark amended mine soils. Journal of Environmental Management, 2017, 192, 79-88.	3.8	26
46	Experimental data and modeling for sulfachloropyridazine and sulfamethazine adsorption/desorption on agricultural acid soils. Microporous and Mesoporous Materials, 2019, 288, 109601.	2.2	26
47	Title is missing!. Water, Air, and Soil Pollution, 1998, 103, 35-53.	1.1	24
48	As(V) and P Competitive Sorption on Soils, By-Products and Waste Materials. International Journal of Environmental Research and Public Health, 2015, 12, 15706-15715.	1.2	24
49	Adsorption/desorption of three tetracycline antibiotics on different soils in binary competitive systems. Journal of Environmental Management, 2020, 262, 110337.	3.8	24
50	Aluminium geochemistry in the bulk and rhizospheric soil of the species colonising an abandoned copper mine in Galicia (NW Spain). Journal of Soils and Sediments, 2010, 10, 1236-1245.	1.5	23
51	Evolution of Chemical Characteristics of Technosols in an Afforested Coal Mine Dump over a 20â€year Period. Land Degradation and Development, 2016, 27, 1640-1649.	1.8	23
52	Factors influencing phosphorus adsorption in mine soils in Galicia, Spain. Science of the Total Environment, 1996, 180, 137-145.	3.9	22
53	Dynamics of macronutrients during the first stages of litter decomposition from forest species in a temperate area (Galicia, NW Spain). Nutrient Cycling in Agroecosystems, 2008, 80, 243-256.	1.1	22
54	Aluminum speciation in the bulk and rhizospheric soil solution of the species colonizing an abandoned copper mine in Galicia (NW Spain). Journal of Soils and Sediments, 2011, 11, 221-230.	1.5	22

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55	Chromium and fluoride sorption/desorption on un-amended and waste-amended forest and vineyard soils and pyritic material. Journal of Environmental Management, 2018, 222, 3-11.	3.8	22
56	Competitive adsorption and desorption of three tetracycline antibiotics on bio-sorbent materials in binary systems. Environmental Research, 2020, 190, 110003.	3.7	22
57	Significance of bedrock as a site factor determining nutritional status and growth of maritime pine. Forest Ecology and Management, 2014, 331, 19-24.	1.4	20
58	Influence of mussel shell on As and Cr competitive and non-competitive sorptionâ€“desorption kinetics in a mine soil: stirred flow chamber experiments. Geoderma, 2014, 232-234, 300-308.	2.3	20
59	Cu Immobilization and Lolium perenne Development in an Acid Vineyard Soil Amended with Crushed Mussel Shell. Land Degradation and Development, 2017, 28, 762-772.	1.8	20
60	Heavy metals in mine soils amended with sewage sludge. Land Degradation and Development, 1999, 10, 555-564.	1.8	19
61	Influence of parent material and soil type on the root chemistry of forest species grown on acid soils. Forest Ecology and Management, 2004, 193, 307-320.	1.4	19
62	Effect of particle size of limestone on Ca, Mg and K contents in soil and in sward plants. Scientia Agricola, 2011, 68, 200-208.	0.6	19
63	pH-dependent copper release in acid soils treated with crushed mussel shell. International Journal of Environmental Science and Technology, 2013, 10, 983-994.	1.8	19
64	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. Journal of Cleaner Production, 2014, 70, 154-163.	4.6	19
65	Adsorption, desorption and fractionation of As(V) on untreated and mussel shell-treated granitic material. Solid Earth, 2015, 6, 337-346.	1.2	19
66	Relationships between needle traits, needle age and site and stand parameters in Pinus pinaster. Trees - Structure and Function, 2015, 29, 1103-1113.	0.9	19
67	Pedotransfer functions to estimate the adsorption and desorption of sulfadiazine in agricultural soils. Science of the Total Environment, 2019, 691, 933-942.	3.9	19
68	Copper and zinc in rhizospheric soil of wild plants growing in long-term acid vineyard soils. Insights on availability and metal remediation. Science of the Total Environment, 2019, 672, 389-399.	3.9	18
69	Optimization of synergistic biosorption of oxytetracycline and cadmium from binary mixtures on reed-based beads: modeling study using Brouers-Sotolongo models. Environmental Science and Pollution Research, 2021, 28, 46431-46447.	2.7	18
70	Influence of Fluoride Addition on the Composition of Solutions in Equilibrium with Acid Soils. Pedosphere, 2009, 19, 60-70.	2.1	15
71	Cr(VI) Sorption/Desorption on Pine Sawdust and Oak Wood Ash. International Journal of Environmental Research and Public Health, 2015, 12, 8849-8860.	1.2	15
72	Aluminum and iron estimated by Mehlichâ€3 extractant in mine soils in Galicia, northwest Spain. Communications in Soil Science and Plant Analysis, 1998, 29, 599-612.	0.6	14

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73	Effect of crushed mussel shell addition on bacterial growth in acid polluted soils. Applied Soil Ecology, 2015, 85, 65-68.	2.1	14
74	Removal of anionic pollutants by pine bark is influenced by the mechanism of retention. Chemosphere, 2017, 167, 139-145.	4.2	14
75	Using pine bark and mussel shell amendments to reclaim microbial functions in a Cu polluted acid mine soil. Applied Soil Ecology, 2018, 127, 102-111.	2.1	14
76	Efficacy of Different Waste and By-Products from Forest and Food Industries in the Removal/Retention of the Antibiotic Cefuroxime. Processes, 2021, 9, 1151.	1.3	14
77	As(V)/Cr(VI) pollution control in soils, hemp waste, and other by-products: competitive sorption trials. Environmental Science and Pollution Research, 2016, 23, 19182-19192.	2.7	13
78	Use of waste materials to prevent tetracycline antibiotics toxicity on the growth of soil bacterial communities. Environmental Research, 2021, 193, 110404.	3.7	13
79	Nitrogen, phosphorus, potassium, calcium and magnesium release from two compressed fertilizers: column experiments. Solid Earth, 2014, 5, 1351-1360.	1.2	12
80	Phosphorus retention on forest and vineyard soil samples, mussel shell, pine-sawdust, and on pyritic, granitic and waste materials. Geoderma, 2016, 280, 8-13.	2.3	12
81	Cadmium and Lead Sorption/Desorption on Non-Amended and By-Product-Amended Soil Samples and Pyritic Material. Water (Switzerland), 2017, 9, 886.	1.2	12
82	Effect of Oxytetracycline and Chlortetracycline on Bacterial Community Growth in Agricultural Soils. Agronomy, 2020, 10, 1011.	1.3	12
83	Relevance of sorption in bio-reduction of amoxicillin taking place in forest and crop soils. Environmental Research, 2022, 208, 112753.	3.7	12
84	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
85	Ciprofloxacin and Trimethoprim Adsorption/Desorption in Agricultural Soils. International Journal of Environmental Research and Public Health, 2022, 19, 8426.	1.2	12
86	Geochemistry of Aluminium and Iron in Mine Soils from As Pontes, Galicia (N.W. Spain). Water, Air, and Soil Pollution, 1999, 110, 81-102.	1.1	11
87	Limestone Particle Size and Liming Scheduling Influence Soil Properties and Pasture Production. Soil Science, 2010, 175, 601-613.	0.9	11
88	The effect of over 50 years of liming on soil aluminium forms in a Retisol. Journal of Agricultural Science, 2019, 157, 12-19.	0.6	11
89	Chromium VI and Fluoride Competitive Adsorption on Different Soils and By-Products. Processes, 2019, 7, 748.	1.3	11
90	F sorption/desorption on two soils and on different by-products and waste materials. Environmental Science and Pollution Research, 2016, 23, 14676-14685.	2.7	10

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91	As(V) Sorption/Desorption on Different Waste Materials and Soil Samples. International Journal of Environmental Research and Public Health, 2017, 14, 803.	1.2	10
92	Bacterial Community Tolerance to Tetracycline Antibiotics in Cu Polluted Soils. Agronomy, 2020, 10, 1220.	1.3	10
93	Photodegradation of Ciprofloxacin, Clarithromycin and Trimethoprim: Influence of pH and Humic Acids. Molecules, 2021, 26, 3080.	1.7	10
94	SARS-CoV-2 and other main pathogenic microorganisms in the environment: Situation in Galicia and Spain. Environmental Research, 2021, 197, 111049.	3.7	10
95	Copper content and distribution in vineyard soils from Betanzos (A CoruÃ±a, Spain). Spanish Journal of Soil Science, 0, 5, .	0.0	10
96	Amoxicillin Retention/Release in Agricultural Soils Amended with Different Bio-Adsorbent Materials. Materials, 2022, 15, 3200.	1.3	10
97	As(V)/Cr(VI) retention on un-amended and waste-amended soil samples: competitive experiments. Environmental Science and Pollution Research, 2017, 24, 1051-1059.	2.7	9
98	Effects of Microbiological and Non-Microbiological Treatments of Sewage Sludge on Antibiotics as Emerging Pollutants Present in Wastewater. , 2019, , 1-17.		9
99	Soil Enzymatic Activities and Microbial Community Structure in Soils Polluted with Tetracycline Antibiotics. Agronomy, 2021, 11, 906.	1.3	9
100	Adsorption of Tetracycline and Sulfadiazine onto Three Different Bioadsorbents in Binary Competitive Systems. Processes, 2021, 9, 28.	1.3	9
101	Variability in needle lifespan and foliar biomass along a gradient of soil fertility in maritime pine plantations on acid soils rich in organic matter. Forest Ecology and Management, 2015, 343, 34-41.	1.4	8
102	Low cost organic and inorganic sorbents to fight soil and water pollution. Environmental Science and Pollution Research, 2019, 26, 11511-11513.	2.7	8
103	Competitive adsorption and desorption of tetracycline and sulfadiazine in crop soils. Environmental Research, 2022, 214, 113726.	3.7	8
104	Response of some soils of Galicia (NW Spain) to H2SO4 acidification. Water, Air, and Soil Pollution, 1994, 74, 89-101.	1.1	7
105	Wheat Straw as a Bio-Sorbent for Arsenate, Chromate, Fluoride, and Nickel. Water (Switzerland), 2017, 9, 690.	1.2	7
106	Time-course evolution of bacterial community tolerance to tetracycline antibiotics in agricultural soils: A laboratory experiment. Chemosphere, 2022, 291, 132758.	4.2	7
107	Solubility equilibria controlling solution phosphorus concentration in minesoils in Galicia, Spain. Science of the Total Environment, 1996, 180, 147-154.	3.9	6
108	Chemistry of soil solutions under different kinds of vegetation in the vicinity of a thermal power station. Environmental Pollution, 1998, 101, 131-142.	3.7	6

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109	Effect of Limestone of Different Sizes on Soil Extractable Phosphorus and Its Concentrations in Grass and Clover Species. Communications in Soil Science and Plant Analysis, 2011, 42, 381-394.	0.6	6
110	Fluorine immission to acid soil in the vicinity of an aluminium smelter in Galicia (NW Spain) and its influence on aluminium dynamics. Journal of Soils and Sediments, 2013, 13, 72-81.	1.5	6
111	Aluminium Toxicity Risk for Pinus pinaster in Acid Soils (Galicia, NW Spain). Land Degradation and Development, 2016, 27, 1731-1739.	1.8	6
112	Pine Bark Amendment to Promote Sustainability in Cu-Polluted Acid Soils: Effects on Lolium perenne Growth and Cu Uptake. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	6
113	Retention of the Antibiotic Cefuroxime onto Agricultural and Forest Soils. Applied Sciences (Switzerland), 2021, 11, 4663.	1.3	6
114	Potential of low-cost bio-adsorbents to retain amoxicillin in contaminated water. Environmental Research, 2022, 213, 113621.	3.7	6
115	Tolerance of soil bacterial community to tetracycline antibiotics induced by As, Cd, Zn, Cu, Ni, Cr, and Pb pollution. Soil, 2022, 8, 437-449.	2.2	6
116	Title is missing!. Soil Science, 2003, 168, 267-279.	0.9	5
117	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. Waste Management and Research, 2011, 29, 268-276.	2.2	5
118	Aluminum fractionation and speciation in a coal mine dump: Twenty years of time-course evolution. Geoderma, 2016, 273, 45-53.	2.3	5
119	Controlling risks of P water pollution by sorption on soils, pyritic material, granitic material, and different by-products: effects of pH and incubation time. Environmental Science and Pollution Research, 2019, 26, 11558-11564.	2.7	5
120	Effects of Changing pH, Incubation Time, and As(V) Competition, on Fâ˜ Retention on Soils, Natural Adsorbents, By-Products, and Waste Materials. Frontiers in Chemistry, 2018, 6, 51.	1.8	4
121	Efficacy of two different reclamation strategies to improve chemical properties and to reduce Al toxicity in a lignite mine dump during a 20â€year period. Land Degradation and Development, 2019, 30, 658-669.	1.8	4
122	Degradation of Doxycycline, Enrofloxacin, and Sulfamethoxypyridazine under Simulated Sunlight at Different pH Values and Chemical Environments. Agronomy, 2022, 12, 260.	1.3	4
123	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
124	Aluminium activity in soil solution and mineral stability in soils from Galicia (NW Spain). Clay Minerals, 1992, 27, 325-330.	0.2	2
125	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
126	Sorbents to control soil pollution. , 2021, , 691-700.		1

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127	Data on the use of sorbents to control pollution in Europe, with main focus on Spain and Galicia. , 2021, , 15-31.		0
128	Optimization of Simultaneous Removal of Binary Toxic Antibiotic and Heavy Metal by Novel Biocomposite Beads: Modeling Study Using Brouersâ€“Sotolongo Family Equations. Environmental Science and Engineering, 2021, , 107-113.	0.1	0
129	Sorbents for antibiotics removal. , 2021, , 417-433.		0
130	By-Products from Forest Activities as Low-Cost Sorbents for Bioremediation of Effluents and Other Polluted Media. , 2020, , 1-14.		0
131	Influence of Pinus pinaster age on aluminium fractions in acidic soils. Spanish Journal of Soil Science, 0, 10, .	0.0	0
132	Biotic and Abiotic Contamination Due to Emerging Pollutants in Sewage Sludge and Soils: A Country-Based Perspective. Handbook of Environmental Chemistry, 2022, , 1.	0.2	0