Alexander Neaman

List of Publications by Year
in descending order

85 papers	1,946 citations	257450 24 h-index	289244 40 g-index
86 all docs	86 docs citations	86 times ranked	1924 citing authors

#	Article	IF	Citations
1	Nanomorphology of montmorillonite particles: Estimation of the clay edge sorption site density by low-pressure gas adsorption and AFM observations. American Mineralogist, 2003, 88, 1989-1995.	1.9	150
2	The effects of exchanged cation, compression, heating and hydration on textural properties of bulk bentonite and its corresponding purified montmorillonite. Applied Clay Science, 2003, 22, 153-168.	5.2	115
3	Rheological Properties of Aqueous Suspensions of Palygorskite. Soil Science Society of America Journal, 2000, 64, 427-436.	2.2	104
4	Improved methods for selective dissolution of Mn oxides: applications for studying trace element associations. Applied Geochemistry, 2004, 19, 973-979.	3.0	99
5	Possible use of the Sacalum (Yucatan) palygorskite as drilling muds. Applied Clay Science, 2004, 25, 121-124.	5.2	95
6	Element mobility patterns record organic ligands in soils on early Earth. Geology, 2005, 33, 117.	4.4	75
7	The effects of palygorskite on chemical and physico-chemical properties of soils: a review. Geoderma, 2004, 123, 297-303.	5.1	60
8	Human-Environment System Knowledge: A Correlate of Pro-Environmental Behavior. Sustainability, 2015, 7, 15510-15526.	3.2	60
9	The effect of lime and compost amendments on the potential for the revegetation of metal-polluted, acidic soils. Geoderma, 2011, 166, 135-144.	5.1	56
10	Toward an Integrated Approach to Environmental and Prosocial Education. Sustainability, 2018, 10, 583.	3.2	54
11	Explaining the Ambiguous Relations Between Income, Environmental Knowledge, and Environmentally Significant Behavior. Society and Natural Resources, 2016, 29, 628-632.	1.9	46
12	Copper mobility in contaminated soils of the PuchuncavÃ-valley, central Chile. Geoderma, 2009, 150, 359-366.	5.1	45
13	Thresholds of copper phytotoxicity in field-collected agricultural soils exposed to copper mining activities in Chile. Ecotoxicology and Environmental Safety, 2015, 122, 171-177.	6.0	44
14	Trace element associations with Fe- and Mn-oxides in soil nodules: Comparison of selective dissolution with electron probe microanalysis. Applied Geochemistry, 2008, 23, 778-782.	3.0	39
15	Advanced determination of the spatial gradient of human health risk and ecological risk from exposure to As, Cu, Pb, and Zn in soils near the Ventanas Industrial Complex (PuchuncavÃ, Chile). Environmental Pollution, 2020, 258, 113488.	7.5	37
16	Soil and indoor dust as environmental media of human exposure to As, Cd, Cu, and Pb near a copper smelter in central Chile. Journal of Trace Elements in Medicine and Biology, 2019, 54, 156-162.	3.0	32
17	Biodegradable chelate enhances the phytoextraction of copper by Oenothera picensis grown in copper-contaminated acid soils. Chemosphere, 2011, 84, 490-496.	8.2	30
18	Highly Charged Swelling Mica Reduces Free and Extractable Cu Levels in Cu-Contaminated Soils. Environmental Science & Technology, 2008, 42, 9197-9202.	10.0	28

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19	Thresholds of arsenic toxicity to Eisenia fetida in field-collected agricultural soils exposed to copper mining activities in Chile. Ecotoxicology and Environmental Safety, 2015, 122, 448-454.	6.0	27
20	Solubility, partitioning, and activity of copperâ€contaminated soils in a semiarid region. Journal of Plant Nutrition and Soil Science, 2015, 178, 452-459.	1.9	26
21	Advances on the determination of thresholds of Cu phytotoxicity in field-contaminated soils in central Chile. Environmental Pollution, 2017, 223, 146-152.	7.5	26
22	Rheology of Mixed Palygorskite-Montmorillonite Suspensions. Clays and Clay Minerals, 2000, 48, 713-715.	1.3	25
23	Effects of lime and compost on earthworm (Eisenia fetida) reproduction in copper and arsenic contaminated soils from the PuchuncavÃ-Valley, Chile. Ecotoxicology and Environmental Safety, 2012, 80, 386-392.	6.0	25
24	Effect of compost and biodegradable chelate addition on phytoextraction of copper by Oenothera picensis grown in Cu-contaminated acid soils. Chemosphere, 2014, 95, 111-115.	8.2	25
25	Which soil Cu pool governs phytotoxicity in field-collected soils contaminated by copper smelting activities in central Chile?. Chemosphere, 2020, 242, 125176.	8.2	24
26	Assessing and mapping urban soils as geochemical barriers for contamination by heavy metal(loid)s in Moscow megapolis. Journal of Environmental Quality, 2021, 50, 22-37.	2.0	23
27	The prosocial origin of sustainable behavior: A case study in the ecological domain. Global Environmental Change, 2021, 69, 102312.	7.8	23
28	Simultaneous immobilization of metals and arsenic in acidic polluted soils near a copper smelter in central Chile. Environmental Science and Pollution Research, 2012, 19, 1131-1143.	5.3	22
29	Amendments Promote the Development ofLolium Perennein Soils Affected by Historical Copper Smelting Operations. International Journal of Phytoremediation, 2011, 13, 552-566.	3.1	21
30	Assessment of revegetation of an acidic metal(loid)-polluted soils six years after the incorporation of lime with and without compost. Geoderma, 2018, 331, 81-86.	5.1	21
31	Clay mineralogy as affecting disaggregation in some palygorskite containing soils of the Jordan and Bet-She'an Valleys. Soil Research, 1999, 37, 913.	1.1	21
32	Root Elongation Method for the Quality Assessment of Metal-Polluted Soils: Whole Soil or Soil-Water Extract?. Journal of Soil Science and Plant Nutrition, 2020, 20, 2294-2303.	3.4	20
33	Proposed modification to avoidance test with Eisenia fetida to assess metal toxicity in agricultural soils affected by mining activities. Ecotoxicology and Environmental Safety, 2017, 140, 230-234.	6.0	19
34	Zinc alleviates copper toxicity to symbiotic nitrogen fixation in agricultural soil affected by copper mining in central Chile. Chemosphere, 2018, 209, 960-963.	8.2	19
35	Chilean regulations on metal-polluted soils: The need to advance from adapting foreign laws towards developing sovereign legislation. Environmental Research, 2020, 185, 109429.	7.5	18
36	EvaluaciÃ³n de la toxicidad de cobre en suelos a travÃ©s de biomarcadores de estrÃ©s oxidativo en eisenia foetida. Quimica Nova, 2010, 33, 566-570.	0.3	17

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37	Role of Leaf Litter on the Incorporation of Copper-Containing Pesticides into Soils Under Fruit Production: a Review. Journal of Soil Science and Plant Nutrition, 2020, 20, 990-1000.	3.4	17
38	Kinetics of Hydrolysis of Some Palygorskite-Containing Soil Clays in Dilute Salt Solutions. Clays and Clay Minerals, 2000, 48, 708-712.	1.3	16
39	Lime and Compost Promote Plant Re-Colonization of Metal-Polluted, Acidic Soils. International Journal of Phytoremediation, 2012, 14, 820-833.	3.1	16
40	Zinc Alleviates Copper Toxicity to Lettuce and Oat in Copper-Contaminated Soils. Journal of Soil Science and Plant Nutrition, 2021, 21, 1229-1235.	3.4	16
41	AcumulaciÃ³n de cobre en una comunidad vegetal afectada por contaminaciÃ³n minera en el valle de PuchuncavÃ, Chile central. Revista Chilena De Historia Natural, 2008, 81, .	1.2	15
42	Analyzing Soil Metal Toxicity: Spiked or Fieldâ€Contaminated Soils?. Environmental Toxicology and Chemistry, 2020, 39, 513-514.	4.3	15
43	Global issues in setting legal limits on soil metal contamination: A case study of Chile. Chemosphere, 2022, 290, 133404.	8.2	15
44	Human Health Risk Assessment from the Consumption of Vegetables Grown near a Copper Smelter in Central Chile. Journal of Soil Science and Plant Nutrition, 2020, 20, 1472-1479.	3.4	14
45	Comparison of exposure to trace elements through vegetable consumption between a mining area and an agricultural area in central Chile. Environmental Science and Pollution Research, 2018, 25, 19114-19121.	5.3	13
46	Evaluation of connected clonal growth of Solidago chilensis as an avoidance mechanism in copper-polluted soils. Chemosphere, 2019, 230, 303-307.	8.2	13
47	Dispersion and migration of fine particles in two palygorskite-containing soils of the Jordan Valley. Journal of Plant Nutrition and Soil Science, 2000, 163, 537-547.	1.9	13
48	Quantification and control of runoff and soil erosion on avocado orchards on ridges along steep-hillslopes. Ciencia E Investigacion Agraria, 2010, 37, 113-123.	0.2	12
49	Thresholds of Metal and Metalloid Toxicity In Field-Collected Anthropogenically Contaminated Soils: A Review. Geography, Environment, Sustainability, 2021, 14, 6-21.	1.3	12
50	ReproducciÃ³n de Eisenia foetida en suelos agrÃcolas de Ã¡reas mineras contaminadas por cobre y arsÃ©nico. Pesquisa Agropecuaria Brasileira, 2007, 42, 435-441.	0.9	11
51	Highly charged swelling mica reduces Cu bioavailability in Cu-contaminated soils. Environmental Pollution, 2009, 157, 12-16.	7.5	11
52	Organic Matter Reduces Copper Toxicity for the Earthworm Eisenia fetida in Soils from Mining Areas in Central Chile. Chilean Journal of Agricultural Research, 2009, 69, .	1.1	10
53	Development of an Analytical Method for Antimony Speciation in Vegetables by HPLC-Hydride Generation-Atomic Fluorescence Spectrometry. Journal of AOAC INTERNATIONAL, 2012, 95, 1176-1182.	1.5	10
54	The effect of four calciumâ€based amendments on soil aggregate stability of two sandy topsoils. Journal of Plant Nutrition and Soil Science, 2019, 182, 159-166.	1.9	10

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55	Gypsum soil amendment in metal-polluted soilsâ€"an added environmental hazard. Chemosphere, 2021, 281, 130889.	8.2	10
56	Remnants of native forests support carnivore diversity in the vineyard landscapes of central Chile. Oryx, 2021, 55, 227-234.	1.0	10
57	The Effects of Palygorskite on Chemical and Physico-Chemical Properties of Soils. Developments in Clay Science, 2011, , 325-349.	0.5	8
58	Vermiculite-Lizardite Industrial Wastes Promote Plant Growth in a Peat Soil Affected by a Cu/Ni Smelter: a Case Study at the Kola Peninsula, Russia. Journal of Soil Science and Plant Nutrition, 2020, 20, 1013-1018.	3.4	8
59	Comparison of Different Methods for Diagnosis of Iron Deficiency in Avocado. Journal of Plant Nutrition, 2007, 30, 1097-1108.	1.9	7
60	Side effects of traditional pesticides on soil microbial respiration in orchards on the Russian Black Sea coast. Chemosphere, 2021, 275, 130040.	8.2	7
61	HUMAN EXPOSURE ASSESSMENT TO MERCURY THROUGH HAIR ANALYSIS IN COASTAL VILLAGES OF THE VALPARAISO REGION (CHILE). Journal of the Chilean Chemical Society, 2019, 64, 4480-4483.	1.2	7
62	FLOCCULATION OF HOMOIONIC SODIUM PALYGORSKITE, PALYGORSKITE-MONTMORILLONITE MIXTURES AND PALYGORSKITE CONTAINING SOIL CLAYS. Soil Science, 1999, 164, 914-921.	0.9	6
63	Microbial responses are unreliable indicators of copper ecotoxicity in soils contaminated by mining activities. Chemosphere, 2022, 300, 134517.	8.2	6
64	The Prosocial Driver of Ecological Behavior: The Need for an Integrated Approach to Prosocial and Environmental Education. Sustainability, 2022, 14, 4202.	3.2	6
65	STABILITY OF ARSENIC DURING SOIL TREATMENT AND STORAGE. Journal of the Chilean Chemical Society, 2015, 60, 3045-3048.	1.2	5
66	An Emerging Frontier: Metal(loid) Soil Pollution Threat Under Global Climate Change. Environmental Toxicology and Chemistry, 2020, 39, 1653-1654.	4.3	5
67	Catholic religious identity, prosocial and pro-environmental behaviors, and connectedness to nature in Chile. Gaia, 2021, 30, 44-50.	0.7	5
68	EFECTOS DEL ENCALADO Y LA FERTILIZACIÃ"N NITROGENADA SOBRE EL DESARROLLO DE Oenothera affinis EN UN SUELO AFECTADO POR LA MINERÃA DEL COBRE. Revista De La Ciencia Del Suelo Y Nutricion Vegetal, 2010, 10, .	0.4	4
69	EvaluaciÃ³n de la tolerancia al cobre de dos poblaciones de Oenothera picensis Phil. subsp. picensis (Onagraceae). Gayana - Botanica, 2015, 72, 240-249.	0.2	4
70	COMPORTAMIENTO DE EVASIÃ"N Y REPRODUCCIÃ"N DE LA LOMBRIZ Eisenia foetida EN SUELOS AGRÃCOLAS IMPACTADOS POR ACTIVIDADES MINERAS. Revista Internacional De Contaminacion Ambiental, 2018, 34, 35-43.	0.4	4
71	Feasibility of Metal(loid) Phytoextraction from Polluted Soils: The Need for Greater Scrutiny. Environmental Toxicology and Chemistry, 2020, 39, 1469-1471.	4.3	4
72	Use of Zinc Carbonate Spiking to Obtain Phytotoxicity Thresholds Comparable to Those in Fieldâ€Collected Soils. Environmental Toxicology and Chemistry, 2020, 39, 1790-1796.	4.3	4

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73	CLONAL PROPAGATION OF THE AVOCADO: EFFECTS OF THE ROOTING STEP ON GRAFT UNION FORMATION AND DEVELOPMENT. Ciencia E Investigacion Agraria, 2016, 43, 6-6.	0.2	3
74	Nitrification and nitrogen mineralization in agricultural soils contaminated by copper mining activities in Central Chile. Journal of Soil Science and Plant Nutrition, 2017, , 0-0.	3.4	3
75	Ornamental Plant Cultivation Using Vermiculite-Lizardite Mining Waste in the Industrial Zone of the Subarctic. Springer Geography, 2020, , 199-204.	0.4	3
76	Choose your amendment wisely: Zero-valent iron nanoparticles offered no advantage over microparticles in a laboratory study on metal immobilization in a contaminated soil. Applied Geochemistry, 2022, 143, 105369.	3.0	3
77	ADVANCES IN DIAGNOSIS OF IRON DEFICIENCY IN AVOCADO. Journal of Plant Nutrition, 2009, 33, 38-45.	1.9	2
78	The Effect of Sealing on Soil Carbon Stocks in New Moscow. Springer Geography, 2020, , 29-36.	0.4	2
79	Impact of Mother Plant Saline Stress on the Agronomical Quality of Pepper Seeds. Journal of Soil Science and Plant Nutrition, 2020, 20, 2600-2605.	3.4	2
80	The role of leaf litter as a protective barrier for copper-containing pesticides in orchard soils. Environmental Science and Pollution Research, 2021, 28, 60913-60922.	5.3	2
81	Rising Copper Exposure Effects on Nutrient Uptake in Two Species with Distinct Copper Tolerance. Russian Journal of Plant Physiology, 2021, 68, 300-306.	1.1	1
82	Modelo predictivo de la distribuciÃ³n espacial de cobre en suelos agrÃcolas de la cuenca del RÃo Aconcagua, Chile. Investigaciones GeogrÃ¡ficas, 2014, , 79.	0.1	1
83	Teaching soil science: The impact of laboratory and field components on the knowledge and attitude toward soil. Revista Brasileira De Ciencia Do Solo, 2021, 45, .	1.3	1
84	Challenges in Reducing Phytotoxicity of Metals in Soils Affected by Non-Ferrous Smelter Operations. Geography, Environment, Sustainability, 2022, 15, 112-121.	1.3	1
85	Photosynthetic apparatus features of Nuphar lutea and Nymphaea alba floating leaves can affect their redistribution. Flora: Morphology, Distribution, Functional Ecology of Plants, 2022, 292, 152080.	1.2	1