FabiÃ¡n FernÃ¡ndez-LuqueÃ±o

List of Publications by Year
in descending order

78 papers	1,436 citations	448610 19 h-index	406436 35 g-index
80 all docs	80 docs citations	80 times ranked	2183 citing authors

#	Article	IF	Citations
1	Nanoscience and nanotechnology regarding food packaging and nanomaterials to extending the postharvest life and the shelf life of foods. , 2021, , 313-384.		2
2	Sericin based nanoformulations: a comprehensive review on molecular mechanisms of interaction with organisms to biological applications. Journal of Nanobiotechnology, 2021, 19, 30.	4.2	59
3	Coupling Plant Biomass Derived from Phytoremediation of Potential Toxic-Metal-Polluted Soils to Bioenergy Production and High-Value by-Productsâ€"A Review. Applied Sciences (Switzerland), 2021, 11, 2982.	1.3	33
4	Suitability assessment for electricity generation through renewable sources: towards sustainable energy production. CTyF - Ciencia, Tecnologia Y Futuro, 2021, 11, 109-122.	0.3	7
5	Assessment of TiO2 Nanoparticles on Maize Seedlings and Terrestrial Isopods Under Greenhouse Conditions. Journal of Soil Science and Plant Nutrition, 2021, 21, 2214-2228.	1.7	6
6	Influence of vegetation type on the ecosystem services provided by urban green areas in an arid zone of northern Mexico. Urban Forestry and Urban Greening, 2021, 62, 127135.	2.3	16
7	A Field Experiment Regarding the Behavior of Endogenous Earthworms Exposed to Iron and Titanium Engineered Nanoparticles in a Natural Forest Soil. International Journal of Environmental Research, 2021, 15, 849-858.	1.1	0
8	Inhibition of Urease, Elastase, and Î²-Glucuronidase Enzymatic Activity by Applying Aqueous Extracts of Opuntia oligacantha C.F. FÃ¶rst Acid Fruits: In Vitro Essay under Simulated Digestive Conditions. Applied Sciences (Switzerland), 2021, 11, 7705.	1.3	1
9	Current perspectives of soil nanoremediation. , 2021, , 521-550.		1
10	Bioanodes containing catalysts from onion waste and Bacillus subtilis for energy generation from pharmaceutical wastewater in a microbial fuel cell. New Journal of Chemistry, 2021, 45, 12634-12646.	1.4	3
11	Influence of nanoparticles on the physical, chemical, and biological properties of soils. , 2021, , 151-182.		1
12	Bioactive Compounds of Opuntia spp. Acid Fruits: Micro and Nano-Emulsified Extracts and Applications in Nutraceutical Foods. Molecules, 2021, 26, 6429.	1.7	6
13	Ecological Drawbacks of Nanomaterials Produced on an Industrial Scale: Collateral Effect on Human and Environmental Health. Water, Air, and Soil Pollution, 2021, 232, 435.	1.1	16
14	Red onions waste-derived biocarbons with remarkably high catalytic activity for the oxygen reduction reaction and high capacitance. MRS Advances, 2021, 6, 847-855.	0.5	1
15	Use of Nanotechnology for the Bioremediation of Contaminants: A Review. Processes, 2020, 8, 826.	1.3	81
16	Phytonanotechnology and environmental remediation. , 2020, , 159-185.		5
17	The first evidence of accumulation and avoidance behavior of macroinvertebrates in a forest soil spiked with human-made iron nanoparticles: A field experiment. Heliyon, 2020, 6, e04860.	1.4	3
18	Encapsulation Preserves Antioxidant and Antidiabetic Activities of Cactus Acid Fruit Bioactive Compounds under Simulated Digestion Conditions. Molecules, 2020, 25, 5736.	1.7	16

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19	Effect of engineered nanoparticles on soil biota: Do they improve the soil quality and crop production or jeopardize them?. Land Degradation and Development, 2020, 31, 2213-2230.	1.8	30
20	Bio-nanomaterials in the air pollution treatment. , 2020, , 227-248.		3
21	Silver nanoparticles, research and development in Mexico: a bibliometric analysis. Scientometrics, 2020, 123, 31-49.	1.6	4
22	Carbon Nanotubes as Plant Growth Regulators: Prospects. Nanotechnology in the Life Sciences, 2020, , 77-115.	0.4	6
23	Effects of ZnO, TiO₂ or Fe₂O₃ Nanoparticles on the Body Mass, Reproduction, and Survival of <i>Eisenia fetida</i>. Polish Journal of Environmental Studies, 2020, 29, 2383-2394.	0.6	10
24	Natural Soil Clays from a Phaeozem to Synthesize a Nanocomposite with Exhausted Coffee Grounds and Ag- and TiO₂-Nanoparticles for Water, Air, or Soil Decontamination. Polish Journal of Environmental Studies, 2020, 30, 871-880.	0.6	1
25	Influence of Bioactive Compounds Incorporated in a Nanoemulsion as Coating on Avocado Fruits (Persea americana) during Postharvest Storage: Antioxidant Activity, Physicochemical Changes and Structural Evaluation. Antioxidants, 2019, 8, 500.	2.2	42
26	Application of nanoemulsions (w/o) with active compounds of cactus pear fruit in starch films to improve antioxidant activity and incorporate antibacterial property. Journal of Food Process Engineering, 2019, 42, e13268.	1.5	8
27	Nanotechnology in crop protection: Status and future trends. , 2019, , 17-45.		15
28	Impact of microalgae culture conditions over the capacity of copper nanoparticle biosynthesis. Journal of Applied Phycology, 2019, 31, 2437-2447.	1.5	17
29	Evaluation of the novel Pd CeO2-NR electrocatalyst supported on N-doped graphene for the Oxygen Reduction Reaction and its use in a Microbial Fuel Cell. Journal of Power Sources, 2019, 414, 103-114.	4.0	21
30	Remediating Polluted Soils Using Nanotechnologies: Environmental Benefits and Risks. Polish Journal of Environmental Studies, 2019, 28, 1013-1030.	0.6	48
31	Nanomaterials modify the growth of crops and some characteristics of organisms from agricultural or forest soils: An experimental study at laboratory, greenhouse and land level. Mexican Journal of Biotechnology, 2019, 4, 29-49.	0.2	9
32	Development and incorporation of nanoemulsions in food. International Journal of Food Studies, 2019, 8, 105-124.	0.5	18
33	TiO₂ nanoparticles affect the bacterial community structure and Eisenia fetida (Savigny, 1826) in an arable soil. PeerJ, 2019, 7, e6939.	0.9	13
34	Development and incorporation of nanoemulsions in food. International Journal of Food Studies, 2019, 8, .	0.5	0
35	A Review on Genetically Modified Plants Designed to Phytoremediate Polluted Soils: Biochemical Responses and International Regulation. Pedosphere, 2018, 28, 697-712.	2.1	14
36	Incorporation of Nanoparticles into Plant Nutrients: The Real Benefits. , 2018, , 49-76.		5

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37	Characterization of Methanol-Functionalized Onion Waste and Graphene-Based Carbons as Anode Catalysts for Microbial Fuel Cell Applications. ECS Transactions, 2018, 86, 585-593.	0.3	1
38	Agronanobiotechnologies to Improve the Water Quality in Irrigation Systems. , 2018, , 141-157.		0
39	Use of Agronanobiotechnology in the Agro-Food Industry to Preserve Environmental Health and Improve the Welfare of Farmers. , 2018, , 3-16.		5
40	Engineered Nanoparticles: Are They an Inestimable Achievement or a Health and Environmental Concern?. , 2018, , 183-212.		4
41	Design and Production of Nanofertilizers. , 2018, , 17-31.		11
42	Effects of Nanoparticles on Plants, Earthworms, and Microorganisms. , 2018, , 161-181.		3
43	GROWTH AND DEVELOPMENT OF COMMON BEAN (PHASEOLUS VULGARIS L.) VAR. PINTO SALTILLO EXPOSED TO IRON, TITANIUM, AND ZINC OXIDE NANOPARTICLES IN AN AGRICULTURAL SOIL. Applied Ecology and Environmental Research, 2018, 16, 1883-1897.	0.2	17
44	Microwave Assisted Functionalization of Onion Waste-Derived Biocarbon for High-Capacitance Supercapacitors. ECS Meeting Abstracts, 2018, , .	0.0	0
45	Nanotoxicidad: retos y oportunidades. Mundo Nano Revista Interdisciplinaria En Nanociencia Y NanotecnologÃa, 2018, 11, 7.	0.1	1
46	Greenhouse Gas Emissions and Growth of Wheat Cultivated in Soil Amended with Digestate from Biogas Production. Pedosphere, 2017, 27, 318-327.	2.1	23
47	Bioremediation of Polycyclic Aromatic Hydrocarbons-Polluted Soils at Laboratory and Field Scale: A Review of the Literature on Plants and Microorganisms. , 2017, , 43-64.		7
48	Renewable energy sources for electricity generation in Mexico: A review. Renewable and Sustainable Energy Reviews, 2017, 78, 597-613.	8.2	75
49	High Performance Pd-CeO _{2-NR} Supported on Graphene and N-Doped Graphene for the ORR and Its Application in a Microbial Fuel Cell. ECS Transactions, 2017, 77, 1359-1365.	0.3	12
50	Evaluation of Order Mesoporous Carbon as Anode Catalyst for Microbial Fuel Cells Applications. ECS Transactions, 2017, 77, 1351-1357.	0.3	6
51	Enhancing Decontamination of PAHs-Polluted Soils: Role of Organic and Mineral Amendments. , 2017, , 339-368.		1
52	Dissipation of Phenanthrene and Anthracene from Soil with Increasing Salt Content Amended with Wastewater Sludge. Polish Journal of Environmental Studies, 2017, 26, 29-38.	0.6	2
53	Greenhouse Gases Production from Some Crops Growing Under Greenhouse Conditions. , 2016, , .		0
54	Silver Nanoparticles (AgNP) in the Environment: a Review of Potential Risks on Human and Environmental Health. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	109

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55	Physicochemical and microbiological characterisation for drinking water quality assessment in Southeast Coahuila, Mexico. International Journal of Environment and Pollution, 2016, 59, 78.	0.2	2
56	Why wastewater sludge stimulates and accelerates removal of PAHs in polluted soils?. Applied Soil Ecology, 2016, 101, 1-4.	2.1	16
57	Do Application Rates of Wastewater Sewage Sludge Affect the Removal of PAHs from Alkaline Saline Soil?. Polish Journal of Environmental Studies, 2016, 25, 2367-2372.	0.6	1
58	Pyrosequencing Analysis of the Bacterial Community in Drinking Water Wells. Microbial Ecology, 2013, 66, 19-29.	1.4	88
59	GREENHOUSE GAS EMISSIONS FROM AN ALKALINE SALINE SOIL CULTIVATED WITH MAIZE (ZEA MAYSL.) AND AMENDED WITH ANAEROBICALLY DIGESTED COW MANURE: A GREENHOUSE EXPERIMENT. Journal of Plant Nutrition, 2012, 35, 511-523.	0.9	4
60	Symbiotic nitrogen fixation in nodules from ten common bean cultivars as a reliable estimator of yield during the early stages. African Journal of Agricultural Research Vol Pp, 2012, 7, .	0.2	2
61	Emission of greenhouse gases from an agricultural soil amended with urea: A laboratory study. Applied Soil Ecology, 2011, 47, 92-97.	2.1	35
62	Cultivation of beans (Phaseolus vulgaris L.) in limed or unlimed wastewater sludge, vermicompost or inorganic amended soil. Scientia Horticulturae, 2011, 128, 380-387.	1.7	24
63	A strain of Bacillus subtilis stimulates sunflower growth (Helianthus annuus L.) temporarily. Scientia Horticulturae, 2011, 128, 499-505.	1.7	19
64	Greenhouse gas emissions and plant characteristics from soil cultivated with sunflower (Helianthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 412-413, 257-264.	3.9	8
65	Microbial communities to mitigate contamination of PAHs in soilâ€"possibilities and challenges: a review. Environmental Science and Pollution Research, 2011, 18, 12-30.	2.7	190
66	Emissions of carbon dioxide, methane and nitrous oxide from soil receiving urban wastewater for maize (Zea mays L.) cultivation. Plant and Soil, 2010, 331, 203-215.	1.8	23
67	Effect of pest controlling neem and mata-raton leaf extracts on greenhouse gas emissions from urea-amended soil cultivated with beans: A greenhouse experiment. Science of the Total Environment, 2010, 408, 4961-4968.	3.9	4
68	Effect of different nitrogen sources on plant characteristics and yield of common bean (Phaseolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.8	45
69	Microorganisms in sewage sludge added to an extreme alkaline saline soil affect carbon and nitrogen dynamics. Applied Soil Ecology, 2010, 45, 225-231.	2.1	24
70	Emission of CO2 and N2O from soil cultivated with common bean (Phaseolus vulgaris L.) fertilized with different N sources. Science of the Total Environment, 2009, 407, 4289-4296.	3.9	35
71	Flocculant in wastewater affects dynamics of inorganic N and accelerates removal of phenanthrene and anthracene in soil. Journal of Environmental Management, 2009, 90, 2813-2818.	3.8	12
72	Effect of pest controlling neem (Azadirachta indica A. Juss) and mata-raton (Gliricidia sepium Jacquin) leaf extracts on emission of green house gases and inorganic-N content in urea-amended soil. Chemosphere, 2009, 76, 293-299.	4.2	8

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73	Micro-morphology of common bean (Phaseolus vulgaris L.) nodules undergoing senescence. Acta Physiologiae Plantarum, 2008, 30, 545-552.	1.0	29
74	Effect of pest-controlling neem and mata-raton on bean growth, soil N and soil CO2 emissions. Agronomy for Sustainable Development, 2008, 28, 187-194.	2.2	10
75	Remediation of PAHs in a salineâ€“alkaline soil amended with wastewater sludge and the effect on dynamics of C and N. Science of the Total Environment, 2008, 402, 18-28.	3.9	41
76	NODULE SENESCENCE AND BIOMASS COMPONENTS IN COMMON BEAN CULTIVARS. Revista Fitotecnia Mexicana, 2008, 31, 195.	0.0	6
77	Energy Generation from Pharmaceutical Residual Water in Microbial Fuel Cells Using Ordered Mesoporous Carbon and Bacillus subtilis as Bioanode. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	2
78	Nanocomposite Synthesis from a Natural Clay-Rich Soils and Exhausted Coffee Grounds for Environmental Applications. Journal of Nano Research, 0, 63, 47-63.	0.8	2