



Profolio of Researchers and Research Teams

CARTOGRAPHY OF SOILS AND LANDSCAPE, PHYSICAL-CHEMISTRY, DEGRADATION AND RECOVERY OF GROUNDS AND WATERS.

(Last update 03/04/2013)

Code: GI-1245

Department: Edafoloxía e Química Agrícola

Institute: Instituto de Investigacións Tecnolóxicas

Contact:

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Center of Innovation and Thecnology Transfer

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Telf.: 981-547000

Research field

- Studies of evaluation of environmental impacts.
- Processes of environmental recovery of soils and waters.
- Cartography and evaluation of soils.
- Soil, water, waste, sediment, rock and mineral characterization.
- Agricultural and sylvicultural management.
- Revaluation and management of wastes.
- Physical-Chemistry of soils and waters
- Characterization of the properties of the humic compounds
- Cartography of soils, water, landscape and natural resources
- Geomorfologic dynamic of cold zones, lithoral and from mountain

- Characterization of the properties of humic compounds and of the mineral nanoparticulates.
- Characterization and valuation of wastes

Technology services

- Environmental management and reclamation of polluted soils, water and contaminated areas.
- Environmental Impact Assessment. Environmental Auditories. Risk system analysis,...
- Chemical characterization of soils, rocks, minerals, wastes and waters.
- Projects of land management and conservation of natural resources.
- Management of soil contamination and other systems accidents.
- Mineralogical Analysis of soils, sediments and rocks.
- Environmental studies
- Geomorphologic and landscaping studies
- Characterization and revaluation of wastes

Key words

Soils; cartography; pollution; soil reclamation; soil vulnerability; risk assessment; environmental impact assessment; wastes; critical loads; waters and humus.

Researchers

<u>Name</u>	<u>Position</u>
Macías Vázquez, F.	Coordinator
Antelo Martínez, J.	Member
Calvo de Anta, R.M.	Member
Monterroso Martínez, C.	Member
Otero Pérez, X.L.	Member
Pérez Alberti, A.	Member
Balseiro Romero, M.	IFP
Bolaños Guerrón, D.R.	IFP
García García, H.	IFP
Macías García, F.	IFP
Mendez Moreno, A.	IFP
Pardo Lorenzo, R.	IFP
Suárez Abelenda, M.	IFP
Vásquez Polo, J.	IFP
Luís Calvo, E.	PA
Marqués Fraguera, M.d.	PA
Pérez Llaguno, C.	PA
Verde Vilanova, J.R.	PA

External collaborators

<u>Name</u>	<u>Institution</u>
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RTD PROJECTS (period: 2009 - 2013)

Title:

Desarrollo de tecnosoles para su aplicación en obra civil: tecnocivil

Tipology: (PN) Plan Nacional
Duration: 01/01/2013 - 31/12/2015
Main investigator: Macías Vázquez, Felipe

Title:
Formas, Mecanismos de estabilidad, saturación actual y potencial de C en suelos de la Península Ibérica. Aplicación al secuestro durable de C

Tipology: Plan Nacional
Duration: 01/01/2011 - 31/12/2013
Main investigator: Macías Vázquez, Felipe

Title:
Monitorización de los procesos biogeoquímicos en suelos de acantilado y aguas costeras en relación con la influencia de las colonias de aves marinas del Parque Nacional Islas Atlánticas

Tipology: Outros Proxectos Nacionais
Duration: 11/01/2010 - 10/01/2014
Main investigator: Otero Pérez, Xosé Lois

Title:
Asociaciones planta-bacteria en diferentes estrategias de fitocorrección

Tipology: Plan Nacional
Duration: 01/01/2010 - 31/12/2012
Main investigator: Monterroso Martínez, Carmela

Title:
Elaboración de un mapa digital de carbono en suelos de la Cornisa Cantábrica (Galicia, Asturias, Cantabria y País Vasco) (1:50.000)

Tipology: Plan Nacional
Duration: 01/01/2010 - 31/12/2013
Main investigator: Calvo de Anta, Rosa María

Title:
Técnicas de recuperación productiva y ambiental en suelos de áreas mineras en Portugal y España. ACCIÓN INTEGRADA CON PORTUGAL

Tipology: Accións integradas
Duration: 01/01/2010 - 31/12/2011
Main investigator: Macías Vázquez, Felipe

Technological customers and partners

- Applus Norcontrol, S.L.U.
- Asociación Galega de Áridos
- Carrera Álvarez, Elidia
- Centro de Cooperación del Mediterráneo
- Concello de Pontevedra
- Confederación Hidrográfica Miño-Sil
- Consellería de Medio Ambiente
- Consellería de Medio Ambiente, Territorio e Infraestruturas
- Consello Galego de Cámaras
- Conservas Isabel de Galicia, S.L.
- Control de Aguas de Consumo de Galicia, S.C.
- Cuarzos Industriales, S.A.
- Demarcación de Costas de Galicia
- Eptisa Servicios de Ingeniería, S.L.
- Europizarras, S.A.

- EXL-Quintaglass
- Explotación de Rocas Industriales y Minerales
- Frivipesca Chapela, S.A.
- Ingemarga, S.A.
- Inmobiliaria Caranjo, S.L.
- Insuiña, S.A.
- INSUIÑA, S.L.
- La Bouza, S.L.
- Maxam Environconsult, S.L.
- Meis Golf Resort, S.A.
- Norte Forestal, S.A.
- Norvento Montouto, S.L.
- Novotec Consultores, S.A.
- Pescanova S.A.
- Sociedad para el Conocimiento, Difusión y Defensa de la Directiva Hábitat (SOS Natura 2000)
- Sotavento Galicia, S.A.
- Tecnologías y Servicios Agrarios, S.A.
- Tratamientos Ecológicos del Noroeste, S.L.
- Universidad de Oviedo
- Valenciana de Aprovechamiento Energético de residuos, S.A.
- Xunta de Galicia

SCIENTIFIC PRODUCTION (period: 2007 - 2011)

Articles in scientific journals

Article:

Apsorption of a soil humic acid at the surface of goethite and its competitive interaction with phosphate

Journal: GEODERMA, ISSN: 0016-7061
2007

Article:

Risk assessment in veneyard soils by using copper tolerance of bacterial community

Journal: JOURNAL OF ENVIRONMENTAL QUALITY, ISSN: 1537-2537
2007

Article:

Evolução geoquímica e mineralógica em perfis de alteração sobre rochas serpentinizadas no sudoeste de minas gerais

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2007

Article:

Bioavailability and plant accumulation of heavy metals and phosphorus in agricultural soils amended by long-term application of sewage sludge

Journal: CHEMOSPHERE, ISSN: 0045-6535
2007

Article:

Comparison of the structural stability of pasture and cultivated soils

Journal: SCIENCE OF THE TOTAL ENVIRONMENT, ISSN: 0048-9697
2007

Article:

¹³C NMR and FTIR spectroscopy characterization of humic acids in spodosols under tropical rain forest in southeastern Brazil.

Journal: GEODERMA, ISSN: 0016-7061
2008

Article:

Microbial diversity and their potential relationships with geochemical processes in a saltmarsh soil.

Journal: SOIL BIOLOGY & BIOCHEMISTRY, ISSN: 0038-0717
2008

Article:

Distribution pathways of hexachlorocyclohexane isomers in a soil-plant-atmosphere system. A case study with *Cynara scolymus* and *Erica* sp. plants grown in a contaminated site.

Journal: ENVIRONMENTAL POLLUTION, ISSN: 0269-7491
2008

Article:

Soil Mineralogy of mangrove forest from the state of Sao Paulo, Southeastern Brazil.

Journal: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL, ISSN: 0361-5995
2008

Article:

Characterization of humic substances in Salt marsh soils under sea rush (*Juncus maritimus*).

Journal: ESTUARINE COASTAL AND SHELF SCIENCE, ISSN: 0272-7714
2008

Article:

NaOH-extractable organic matter of andic soils from Galicia (NW Spain) Under different land use regimes: a pyrolysis GC/MS study

Journal: EUROPEAN JOURNAL OF SOIL SCIENCE, ISSN: 1351-0754
2008

Article:

Fractionation of Cu, Pb, Cr and Zn in a Soil column amended with anaerobic municipal sewage sludge

Journal: WATER AIR AND SOIL POLLUTION, ISSN: 0049-6979
2008

Article:

Iron geochemistry under mussel rafts in the Galician ria system (Galicia, NW Spain).

Journal: ESTUARINE COASTAL AND SHELF SCIENCE, ISSN: 0272-7714
2008

Article:

Spatial distribution of water inputs in forest soils under *Pinus radiata*, in Galicia (NW Spain)

Journal: FRESenius ENVIRONMENTAL BULLETIN, ISSN: 1018-4619
2008

Article:

Iron geochemistry under mussel rafts in the Galician ria system (Galicia-NW Spain)

Journal: ESTUARINE COASTAL AND SHELF SCIENCE, ISSN: 0272-7714
2009

Article:

Remediation of Soils Contaminated with Pyritic Sludge from a Mine Spill in Aznalcóllar, Spain

Journal: CATENA, ISSN: 0341-8162
2009

Article:

Protocol for assessing the effectiveness of protective coatings for roofing slat

Journal: MATERIALES DE CONSTRUCCION, ISSN: 0465-2746
2008

Article:

Rhizosphere microbial community and hexachlorocyclohexane degradative potential in contrasting plant species

Journal: PLANT AND SOIL, ISSN: 0032-079X
2008

Article:

Rhizosphere microbial densities and trace metal tolerance of the nickel hyperaccumulator *Alyssum serpyllifolium* subsp. *Lusitanicum*

Journal: INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, ISSN: 1522-6514
2009

Article:

Passivation techniques to prevent corrosion of iron sulphides in roofing slates

Journal: CORROSION SCIENCE, ISSN: 0010-938X
2009

Article:

Trace element behaviour at the root–soil interface: Implications in phytoremediation

Journal: ENVIRONMENTAL AND EXPERIMENTAL BOTANY, ISSN: 0098-8472
2009

Article:

Pyrolysis-gas chromatography/mass spectrometry of soil organic matter from a Brazilian mangrove and Spanish salt marshes

Journal: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL, ISSN: 0361-5995
2009

Article:

¹³C NMR and FTIR spectroscopy characterization of humic acids in spodosols under tropical rain forest in southeastern Brazil

Journal: GEODERMA, ISSN: 0016-7061
2008

Article:

Humic substances composition from salt marsh soils under rush (*Juncus maritimus*).

Journal: ESTUARINE COASTAL AND SHELF SCIENCE, ISSN: 0272-7714
2008

Article:

Microbial diversity and their potential relationships with geochemical processes in a saltmarsh soil

Journal: SOIL BIOLOGY & BIOCHEMISTRY, ISSN: 0038-0717
2008

Article:

Geochemistry of iron and manganese in soils and sediments of a mangrove system, Island of Pai Matos (Cannaneia,-SP-Brazil).

Journal: GEODERMA, ISSN: 0016-7061
2009

Article:

Humic substances in estuarine soils colonized by *Spartina maritima*

Journal: ESTUARINE COASTAL AND SHELF SCIENCE, ISSN: 0272-7714
2009

Article:

Effects of reclamation and regeneration processes on organic matter from estuarine soils and sediments

Journal: ORGANIC GEOCHEMISTRY, ISSN: 0146-6380
2009

Article:

Characterizing humic substances from estuarine soils and sediments by excitation-emission matrix spectroscopy and parallel factor analysis

Journal: BIOGEOCHEMISTRY, ISSN: 0168-2563
2009

Article:

Smectite in mangrove soils of the state of São Paulo, Brazil

Journal: SCIENTIA AGRICOLA, ISSN: 0103-9016
2009

Article:

Organic carbon stabilization in Technosols elaborated from mixtures of unconsolidated wastes.

Journal: WASTE MANAGEMENT, ISSN: 0956-053X
2009

Article:

Influence of the acid buffering capacity of different types of Technosols on the Chemistry of their Leachates

Journal: CHEMOSPHERE, ISSN: 0045-6535
2009

Article:

Chemical changes in heavy metals in the leachates from Technosols.

Journal: CHEMOSPHERE, ISSN: 0045-6535
2009

Article:

Novos resultados das intervencións arqueolóxicas no sur lucense. Os xacementos paleolíticos da depresión de Monforte (Monforte de Lemos), Cova Eirós (Triacastela) e Valdavara (Becerreá)

Journal: Gallaecia, ISSN: 0211-8653
2009

Article:

Los episodios Heinrich en la costa de Galicia (NW de la Península Ibérica). Un análisis a través de los sedimentos continentales

Journal: Territoris. Revista del Departament de Ciències de la Terra, ISSN: 1139-2169
2009

Article:

Adsorption of paraquat on goethite and humic acid-coated goethite

Journal: JOURNAL OF HAZARDOUS MATERIALS, ISSN: 0304-3894
2010

Article:

Adsorption of MCA on goethite and humic acid-coated goethite

Journal: CHEMOSPHERE, ISSN: 0045-6535
2010

Article:

Coal cleaning residues and Fe-minerals implications.

Journal: ENVIRONMENTAL MONITORING AND ASSESSMENT, ISSN: 0167-6369
2010

Article:

Chemical and structural properties of carbonaceous products obtained by pyrolysis and hydrothermal carbonisation of corn stover

Journal: AUSTRALIAN JOURNAL OF SOIL RESEARCH, ISSN: 0004-9573
2010

Article:

Producing biochars with enhanced surface activity through alkaline pretreatment of feedstocks

Journal: AUSTRALIAN JOURNAL OF SOIL RESEARCH, ISSN: 0004-9573
2010

Article:

Phytotoxicity of hexachlorocyclohexane: effect on germination and early growth of different plant species.

Journal: CHEMOSPHERE, ISSN: 0045-6535
2010

Article:

Leaching of potential hazardous elements of coal cleaning rejects

Journal: ENVIRONMENTAL MONITORING AND ASSESSMENT, ISSN: 0167-6369
2010

Article:

Aluminium geochemistry in the bulk and rhizospheric soil of the species colonizing an abandoned copper mine in Galicia (NW Spain)

Journal: JOURNAL OF SOILS AND SEDIMENTS, ISSN: 1439-0108
2010

Article:

Aluminium speciation in the bulk and rhizospheric soil solution of the species colonizing an abandoned copper mine in Galicia (NW Spain)

Journal: JOURNAL OF SOILS AND SEDIMENTS, ISSN: 1439-0108
2010

Article:

Relação solo-relevo-substrato geológico nas restingas da planície costeira do estado de Sao Paulo.

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2010

Article:

Fraccionamiento do aluminio por técnicas de dissoluções seletivas em espodossolos da planície costeira do estado de Sao Paulo

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2010

Article:

Química e gênese de solos desenvolvidos sob vegetação de restinga no estado de Sao Paulo

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2010

Article:

Spatial patterns of soil attributes and components in a mangrove system from southeast Brazil. (Sao Paulo).

Journal: JOURNAL OF SOILS AND SEDIMENTS, ISSN: 1439-0108
2010

Article:

Smectite in mangrove soils of the state of São Paulo, Brazil

Journal: SCIENTIA AGRICOLA, ISSN: 0103-9016
2010

Article:

Mineralogy and modulus of rupture of roofing slate: applications in the prospection and quarrying of slate deposits

Journal: ENGINEERING GEOLOGY, ISSN: 0013-7952
2010

Article:

Reductive dechlorination of α -, β -, γ -, and δ -Hexachlorocyclohexane isomers with hydroxocobalamin, in soil slurry systems

Journal: ENVIRONMENTAL SCIENCE & TECHNOLOGY, ISSN: 0013-936X
2010

Article:

Analysis of Composition, distribution and origin of hexachlorocyclohexane residus in agricultural soils form NW Spail

Journal: SCIENCE OF THE TOTAL ENVIRONMENT, ISSN: 0048-9697
2010

Article:

Completando o mapa. Novas datacións absolutas para o paleolítico e mesolítico do interior galego

Journal: Gallaecia, ISSN: 0211-8653
2010

Article:

Aluminium speciation in the bulk and rhizospheric soil solution of the species colonizing an abandoned copper mine in Galicia (NW Spain)

Journal: JOURNAL OF SOILS AND SEDIMENTS, ISSN: 1439-0108
2011

Article:

Iron and trace metals in microbial mats and underlying sediments: results from Guerrero Negro saltern, Baja California Sur, México

Journal: AQUATIC GEOCHEMISTRY, ISSN: 1380-6165
2011

Article:

Avaliação de cloretos não tamponados (KCl, CuCl₂ e LaCl₃) como extractores de alumínio associado à matéria orgânica em solos da planície costeira do estado de São Paulo. I. Selectividade dos reagentes

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683

Article:

Proton binding on untreated and acid-washed peat

Journal: GEODERMA, ISSN: 0016-7061
2011

Article:

A unified surface structural model for ferrihydrite: proton charge, electrolyte binding, and arsenate adsorption

Journal: Revista Internacional de Contaminacion Ambiental, ISSN: 0188-4999
2011

Article:

Comparing NaOH-extractable organic matter of acid forest soils that differ in their pedogenetic trend: A pyrolysis GC/MS study

Journal: EUROPEAN JOURNAL OF SOIL SCIENCE, ISSN: 1351-0754
2011

Article:

Oxidability of soil organic matter of forest soils assessed using 33 mM potassium permanganate

Journal: SOIL SCIENCE, ISSN: 0038-075X
2011

Article:

Nickel Solubilizing Capacity and Characterization of Rhizobacteria Isolated from Hyperaccumulating and Non-Hyperaccumulating Subspecies of *Alyssum Serpyllifolium*

Journal: INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, ISSN: 1522-6514
2011

Article:

Phytotoxicity of hexachlorocyclohexane: Effect on germination and early growth of different plant species

Journal: CHEMOSPHERE, ISSN: 0045-6535
2010

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Mineralogy and modulus of rupture of roofing slate: applications in the prospection and quarrying of slate deposits

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2010

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Analysis of Composition, distribution and origin of hexachlorocyclohexane residus in agricultural soils form NW Spain

Journal: SCIENCE OF THE TOTAL ENVIRONMENT, ISSN: 0048-9697
2010

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Smectite in mangrove soils of the state of São Paulo, Brazil.

Journal: SCIENTIA AGRICOLA, ISSN: 0103-9016
2010

Article:

Spatial patterns of soil attributes and components in a mangrove system in Southeast Brazil (Sao Paulo).

Journal: JOURNAL OF SOILS AND SEDIMENTS, ISSN: 1439-0108
2010

Article:

Geochemical evolution of leachates from sulfide rich tailing materials in rehabilitation experiments.

Journal: Journal of Geosciences, ISSN: 1802-6222
2010

Article:

Relação Solo-Relevo-substrato geológico nas restingas da planície costeira do estado de Sao Paulo.

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2010

Article:

Contribution to characterisation of biochar to estimate the labile fraction of carbon.

Journal: ORGANIC GEOCHEMISTRY, ISSN: 0146-6380
2011

Article:

Avaliação de cloretos não tamponados como extractores de alumínio associado à matéria orgânica em solos da planície costeira do estado de São Paulo.

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2011

Article:

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: JOURNAL OF GEOCHEMICAL EXPLORATION, ISSN: 0375-6742
2011

Article:

Opal Phytolith Extraction in Oxisols.

Journal: QUATERNARY INTERNATIONAL, ISSN: 1040-6182
2011

Article:

Influence of Agricultural Practices on the Stability of Organo-Al-Complexes in an Alu-Andic Andosol: A Laboratory Study..

Journal: SOIL SCIENCE, ISSN: 0038-075X
2010

Article:

Chemical and structural properties of carbonaceous products obtained by pyrolysis and hydrothermal carbonization of corn stover.

Journal: AUSTRALIAN JOURNAL OF SOIL RESEARCH, ISSN: 0004-9573
2010

Article:

Producing biochars with enhanced surface activity through alkaline pretreatment of feedstocks.

Journal: AUSTRALIAN JOURNAL OF SOIL RESEARCH, ISSN: 0004-9573
2010

Article:

Simulated geochemical weathering of a mineral ash-rich biochar in a modified Soxhlet reactor.

Journal: CHEMOSPHERE, ISSN: 0045-6535
2010

Article:

Soil carbon sequestration in a changing environment

Journal: Mitigation and Adaptation Strategies for Global Change, ISSN: 1381-2386
2010

Article:

Reductive dechlorination of α -, β -, γ -, δ -, Hexachlorocyclohexane isomers with hydroxocobalamin in soil slurry systems.

Journal: ENVIRONMENTAL SCIENCE & TECHNOLOGY, ISSN: 0013-936X
2010

Article:

Leaching of potential hazardous elements of Coal Cleaning Residues. 1.

Journal: ENVIRONMENTAL MONITORING AND ASSESSMENT, ISSN: 0167-6369
2010

Article:

Fracionamento do alumínio por técnicas de dissoluções seletivas em espodosols da planície costeira do estado de São Paulo.

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2010

Article:

Química e gênese de solos desenvolvidos sob vegetação de restinga no estado de São Paulo.

Journal: REVISTA BRASILEIRA DE CIENCIA DO SOLO, ISSN: 0100-0683
2010

Article:

La disolución del suelo en comunidades de Erica andevalensis del entorno de las minas de Río Tinto (Huelva, SO España).

Journal: Semina-Ciencias Agrarias, ISSN: 1676-546X
2010

Article:

Coal cleaning residues and Fe-minerals implications.

Journal: ENVIRONMENTAL MONITORING AND ASSESSMENT, ISSN: 0167-6369
2010

Article:

Adsorption of MCPA on goethite and humic acid-coated goethite

Journal: CHEMOSPHERE, ISSN: 0045-6535
2010

Article:

Analysis of phosphate adsorption onto ferrihydrite using the CD-MUSIC model

Journal: JOURNAL OF COLLOID AND INTERFACE SCIENCE, ISSN: 0021-9797
2010

Article:

Adsorption of paraquat on goethite and humic acid-coated goethite

Journal: JOURNAL OF HAZARDOUS MATERIALS, ISSN: 0304-3894
2010

Book:

Title:

Niveles genéricos de referencia de metales pesados y otros elementos traza en suelos de Galicia (9788445346648) Publicación: 2008

Editorial:Xunta de Galicia

Title:

NIVELES GENÉRICOS DE REFERENCIA DE METALES PESADOS Y OTROS ELEMENTOS TRAZA EN SUELOS DE GALICIA

(978-84-453-4664-8) Publicación: 2009

Editorial:Xunta de Galicia

Title:

Parque nacional marítimo-Terrestre de las islas Atlánticas de Galicia.

(978-84-9785-582-2) Publicación: 2009

Editorial:Lunweg

Title:

Itinerarios edáficos por El Alto Aragon

(978-84-8127-210-9) Publicación: 2009

Editorial:Instituto de Estudios Altoaragoneses

Title:

Biogeochemistry and pedogenetic process in saltmarsh and mangrove systems.

(978-1-61728-269-0) Publicación: 2010

Editorial:nova science publishers, Inc

Title:

BIOGEOCHEMISTRY AND PEDOGENETIC PROCESS IN SALTMARRSH AND MANGROVE SYSTEM

(978-1-61728-269-0) Publicación: 2011

Editorial:Nova Science Publishers

Chapter:

Title:

Effect of parent material and pedogenic processes on the distribution, form and dynamics of organic carbon in forest ecosystems in NW Spain. A biogeochemical approach. Chap. 5

Book:

Ecology Research Progress

(9781600218071)Publicación: 2008

Editorial:Nova Editorial nova science publishers, inc

Title:

Acid Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-3994-2)Publicación: 2008

Editorial:Springer

Title:

Acrisols

Book:

Encyclopedia of Soil Science

(978-1-4020-3994-2)Publicación: 2008

Editorial:Springer

Title:

Alkaline Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-3994-2)Publicación: 2008

Editorial:Springer

Title:

Calcareous Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-3994-2)Publicación: 2008

Editorial:Springer

Title:

Hydric Soils

Book:

Encyclopedia of Soil Science
(978-1-4020-3994-2)Publicación: 2008
Editorial:Springer

Title:
Near Neutral Soils

Book:
Encyclopedia of Soil Science
(978-1-4020-3994-2)Publicación: 2008
Editorial:Springer

Title:
Soil

Book:
Encyclopedia of Soil Science
(978-1-4020-3994-2)Publicación: 2008
Editorial:Springer

Title:
Thionec of sulphidic soils

Book:
Encyclopedia of Soil Science
(978-1-4020-3994-2)Publicación: 2008
Editorial:Springer

Title:
Profile

Book:
Encyclopedia of Soil Science
(978-1-4020-3994-2)Publicación: 2008
Editorial:Springer

Title:
Thionic or sulphidic Soils

Book:
Encyclopedia of Soil Science
(978-1-4020-5127-2)Publicación: 2008
Editorial:Springer Editorial

Title:
Química de solos alagados

Book:
Química e Mineralogia de Solos
(978-85-86504-05-1)Publicación: 2009
Editorial:Sociedade Brasileira de Ciencia do Solo

Title:

Acid Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Acrisols

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Alkaline Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Calcareous Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Hydric Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Near Neutral Soils

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Soil

Book:

Encyclopedia of Soil Science

(978-1-4020-5127-2)Publicación: 2008

Editorial:Springer Editorial

Title:

Utilización de Tecnosoles derivados de residuos en procesos de restauración de la mina de Touro.

Book:

Minería Sostenible

(978-84-692-3936-0)Publicación: 2009

Editorial:Cámara Oficial Mineira de Galicia

Title:

Recuperación de aguas ácidas de la mina Touro mediante sistemas integrados de barrera reactiva con diferentes Tecnosoles y humedales

Book:

Minería Sostenible

(978-84-692-3936-0)Publicación: 2009

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Title:

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Date of dissertation: 29/07/2008

Director: Felipe Macías Vázquez, Carmela Monterroso Martínez

Author: Roberto Calvelo Pereira

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Date of dissertation: 30/09/2009

Director: Marta Camps Arbostain, Felipe Macías Vázquez

Author: José Ramón Verde Vilanova

Title:

Fitocorrección de solos contaminados con metais pesados: Avaliación de prantas tolerantes e optimización do proceso mediante prácticas agronómicas

Date of dissertation: 17/03/2009

Director: Carmela Monterroso Martínez, Kidd, Petra Sussan

Author: FCO. JAVIER DIEZ LAZARO

Title:

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suelos contaminados

Date of dissertation: 10/03/2009

Director: Carmela Monterroso Martínez, Felipe Macías Vázquez

Author: Beatriz Rodríguez Garrido

Title:

Relaciones suelo- planta en ecosistemas de brezales atlánticos de Galicia

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Director: Felipe Macías Vázquez, GARCIA ARRESE, ANA M.

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Date of dissertation: 23/01/2009

Director: Xosé Lois Otero Pérez, Miguel Ángel Álvarez García

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Director: Felipe Macías Vázquez, Lampreave Figueras, Miriam

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