

Presentaciones Orales

Raw materials and pulping

- Cellulose crystallinity index: comparison of methods
- Modeling and optimization for obtaining lignosulfonates from barley straw using a response surface model
- Application of artificial neural networks in modeling of process variables in soda pulping of *Musa paradisiaca* mid-rid

Nanotechnology and lignocellulosic materials

- Agricultural byproducts as a resource for microfibrillated cellulose production
- Mean intrinsic tensile and flexural strengths of the fibers of *leucaena collinsii*
- Tensile strength of the plastic wood filled with sawdust of poplar (*Populus alba*)
- Development of Microfibrillated Cellulose Films with antimicrobial activity for food industry applications
- Characterization of viscose formulations through rheological and physicochemical parameters
- Use of bacterial cellulose sheets as reinforcing material in degraded paper restoration
- Surface properties of microfibrillated celluloses assessed by inverse gas chromatography
- Feasibility of incorporating treated lignin and NFC in all lignocellulosic materials made from corn stalk biomass
- Nanofibrillated cellulose (NFC) assessment for its use in papermaking
- Effect of eucalyptus sawdust NFC on the mechanical properties of paper made from a eucalyptus pulp unrefined
- The physicochemical and thermal properties of nanocellulose isolated from banana pseudostem at different times of maturation
- Unsaturated Polyester Nanocomposites Modified with Sisal Microfibrillated Cellulose and PEG-b-PPG-b-PEG Block Copolymers: Morphology and Mechanical Properties Relationship

Bleaching

- Isolation and screening of endophyte fungi for lignin degrading enzymes

Manufacture of paper, cardboard and boards

- Cross-direction physical properties of copy paper manufactured in gap-former at high anisotropy forming mode
- Studies of the solute exclusion zone near cellulose surfaces
- Rheology of bleached sugarcane bagasse pulp suspensions
- Binderless fiberboards from *gynerium sagittatum*

Agroforestry biorefinery

- Autothermal gasification of waste wood produced by the forest industry: an alternative for sustainable biorefineries
- Thermochemical conversion of forest wood to gaseous biofuel production: effect of the particle geometry and oxidant agent
- The role of hemicelluloses in biorefineries: furan production from pentoses and hexoses in ionic liquid catalyzed
- Production of levulinic acid from *Pinus pinaster* autohydrolysis liquors: an interpretation from the reactions of the individual hexoses
- Polyelectrolyte complexes of Xylan and Chitosan. Application to improve the mechanical properties of recycled paper furnish
- Fractionation of *Pinus pinaster* by consecutive stages of autohydrolysis and Acetosolv pulping: an integrated biorefinery method
- Expression of hydrolytic enzymes produced by *trametes polyzona* during growth on corn leaves
- Strategy of fractionation of pine sawdust by steam explosion

Environment

- Chemimechanical pulping effluent treatment by advanced oxidation: II. Kinetic study

Industrial experiences and new products

- Effect of fountain solutions and paper properties on offset print quality
- Papermaking performance of mineral fillers functionalized with silica
- Chemical and Physical Characteristics of Soy Proteins for New Industrial Applications