



2021:

Changes in soil mesofauna structure due to different land use systems in south Minas Gerais, Brazil

A data-driven framework for identifying productivity zones and the impact of agricultural droughts in sugarcane using SPI and unsupervised learning

Determining leaf stomatal properties in citrus trees utilizing machine vision and artificial intelligence

Evaluating the capacity of small farmers to adopt aquaponics systems: Empirical evidence from Brazil

Functional responses of *Hyaella meinerti* after exposure to environmentally realistic concentrations of 2,4-D, fipronil, and vinasse (individually and in mixture)

A review of pesticides sorption in biochar from maize, rice, and wheat residues: Current status and challenges for soil application

Socioeconomic and environmental impacts of water markets: A literature review

2020:

Abc costing methods applied to transgenic soybean by conventional and precision farming systems

Agriculture influences ammonium and soluble reactive phosphorus retention in South American headwater streams

Improved localization in a corn crop row using a rotated laser rangefinder for three-dimensional data acquisition

Reactive navigation system based on H_∞ control system and LiDAR readings on corn crops

Weed segmentation in sugarcane crops using Mask R-CNN through aerial images

2019:

The efficiency of small farmers in Goiânia/Brazil for Food Security: An analysis by the DEA Method

Soft-sensor based on k-nn classifiers in agricultural pest control

Thévenin's Theorem, Cramer's Rule, and Parameterized Systems: Some Connections [Lecture Notes]

2018:

Decentralized Low Impact Development (LID) Practices Addressing the Security of the Water-Energy-Food Nexus

A Hydraulic-Pump Speed Controller in Agricultural Sprayers Based on the Automation and Use of the Control Area Network (CAN) Bus

Land use and climate change impacts on runoff and soil erosion at the hillslope scale in the Brazilian Cerrado

Urban horticulture in retail parks: Environmental assessment of the potential implementation of rooftop greenhouses in European and South American cities

A water-energy-food nexus perspective on the challenge of eutrophication

2017:

Flow and Pressure Regulation for Agricultural Sprayers Using Solenoid Valves

Genetic Diversity Loss in *Chironomus sancticaroli* (Diptera: Chironomidae) Exposed to Pyrimethanil Fungicide: an Analysis Using RAPD Technique

Hydrological services in the Atlantic Forest, Brazil: An ecosystem-based adaptation using ecohydrological monitoring

Impact of soil moisture over palmer drought severity index and its future projections in Brazil

2016:

Aerial image mosaics built using images with vegetation index pre-calculated

Hydrologic Simulation for Water Balance Improvement in an Outcrop Area of the Guarani Aquifer System

Mirã Rover Characterization

Modeling and model validation of a chemical injection sprayer system

2015:

Quantification of phytoplankton bloom dynamics by citizen scientists in urban and peri-urban environments

Simulation of rovers for precision agriculture

Transport mechanisms of sodium in sandy soil from column leaching test

2014:

Sistemas agroflorestais como alternativa para as reservas legais

2013:

A row crop following behavior based on primitive fuzzy behaviors for navigation system of agricultural robots

2012:

Networked control system for the guidance of a four-wheel steering agricultural robotic platform